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## **Buffer Guidelines**

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## **Buffer Guidelines**

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#### 1. Introduction

Through its Carbon Fund, the FCPF is seeking to pilot the implementation of REDD+ ER Programs in a diverse set of countries, via the use of positive incentives. Specifically, CF Participants will fund forest carbon Emission Reductions achieved by discrete, country-level REDD+ ER Programs. The terms of such funding will be stipulated in an ERPA signed for each ER Programs.

All the ERs achieved by a REDD+ ER Program are subject to both Uncertainty and Reversal Risks. Specifically:

- Improved observation methods and data, may indicate that the emission reduction were overestimated for prior reporting periods.
- 2. Certain physical disturbances may cause forest carbon emissions that reduce the total number of ERs achieved.

To help manage these risks, the CF may rely on an ER Program CF Buffer to be managed by the Buffer Manager. As part of the ER Program CF Buffer, three (3two (2)) separate buffer reserve accounts will be established:

- an 'Uncertainty Buffer' to create incentives for improving (reducing) uncertainty associated with the
  estimation of ERs and manage the risk that the emission reductions were overestimated for prior
  reporting periods; ; and
- 2. a 'Reversal Buffer' to insure against potential Reversals; and
- 3-.2. a 'Pooled Reversal Buffer' to insure against potential large-scale Reversals which exceed the amount of Buffer ERs set aside in the Reversal Buffer (covering, on a pro-rata basis and subject to certain requirements, Reversal Risks that may materialize under any ER Program).

As detailed in these Buffer Guidelines, the proportion of ERs that must be set-aside in each buffer reserve account may change depending on improvements in emissions reductions estimates or revisions to Reversal Risk assessments. Buffer ERs that were set-aside for an initial reporting period may be released after subsequent Reporting Periods pending such improvements or revisions. Thus, the buffer reserves serve a dual purpose of both insuring against potential losses and providing incentives for improved quantification (reduction in Uncertainty) and management of Reversal Risks.

In the event that any transaction of ERs under any ER Program will be carried out by a specific registry which provides for its own buffer rules and procedures such registry's buffer rules and procedures may prevail, if such an arrangement is agreed with the Carbon Fund.

Capitalized terms used in these Buffer Guidelines are defined in the FCPF Carbon Fund Glossary of Terms.

#### 2. References

- 2.1 The following are references made in the Buffer Guidelines to other documents:
  - a) FCPF Methodological Framework: Provides the overarching guidance and act as a standard that is designed to achieve a consistent approach to carbon accounting and programmatic characteristics.
  - b) Validation and Verification Guidelines: Provides the procedures for third party Validation and Verification by a Validation and Verification Body.

- c) Process Guidelines: Provides the procedures for the ER Program cycle from ER Program preapproval to payment for Emission Reductions.
- d) Guidelines on the application of the methodological framework on technical corrections to GHG emissions and removals reported in the reference period;
- FCPF Glossary of Terms: a separate general reference document providing a consolidated set of definitions of capitalized terms used throughout various instruments under the FCPF Carbon Fund.
- 2.2 Additionally, applicable templates are used to capture data or information required in the FCPF processes and provides pre-defined fields and specific guidance:
  - a) ER Monitoring Report: Form and guidance to help REDD Country Participants to prepare a monitoring report describing the results achieved under an ER Program during a Reporting Period.
  - b) Validation/Verification Report Templates: Form and guidance to help Validation and Verification Bodies to prepare the Validation/Verification Report.

#### 3. Use of ER Program Transaction Registries to Manage Buffer Reserves

- 3.0 <u>Criterion 19 of the MFThe FCPF</u> requires ER Programs to manage Reversal Risks through the use of a <u>Pooled Reversal n ER Program CF</u> Buffer managed by the Buffer Manager. Likewise, <u>Criterion 22</u> <u>indicates that the FCPF requires ER Programs to have</u> an ER Program CF Buffer shall be used to hold a set-aside of ERs in order to account for quantification <u>of</u> Uncertainty.
- 3.1 Criterion 38 of the MF stipulates that The FCPF requires ER Programs shall to ensure that ERs are not double-counted (or "generated more than once") and that ERs sold and transferred under an ERPA are not used or claimed by any other entity for any other purpose. These assurances may be are achieved through the establishment and/or use of a centralized "ER Transaction Registry" that meets certain criteria and can perform functions in accordance with the methods and definitions of the MF (Indicators 38.1-38.4), an ER Program Entity may establish its own ER Transaction Registry or use a "centralized" ER Transaction Registry managed by a third party on its behalf (Indicator 38.1)-FCPF requirements.
- 3.2 ER Programs shall establish <u>B</u>buffer reserve <u>ER Program CF Buffer</u> accounts <u>shall be established</u> in <u>the centralized an appropriate</u> ER Transaction Registry to manage Reversal Risks and Uncertainty <u>through the ER Program CF Buffer</u>.
- 3.3 Three (3Two (2) types of separate buffer reserve accounts shall be established, which together will comprise the ER Program CF Buffer:
  - a) An-ER Program 'Uncertainty Buffer' accounts to hold ERs set aside by each ER Program for the purpose of managing Uncertainty, and
  - b) An ER Program-specific 'Reversal Buffer' account to hold ERs set aside for the purpose of managing Reversal Risks, and
  - e)b) A 'Pooled Reversal Buffer' account to hold ERs set aside by all ER Programs for the purpose of managing Reversal Risks that, if materialized, may exceed the amount of ERs set aside in the Reversal Buffer account (covering, on a pro-rata basis and subject to certain requirements described in this document, Reversal Risks that may materialize under any ER Program). The Pooled Reversal Buffer shall have the capacity to identify the contributions and cancellations made by each ER Program.

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3.4 The Buffer Manager(s) will manage these accounts in accordance with the Buffer Guidelines to manage Uncertainty and Reversal Risks, respectively, and to dispose of Buffer ERs set aside in these accounts at the end of the Term of the CF ERPA. Crediting period.

#### 4. Establishing Buffer Reserve Accounts in the ER Program Transaction Registry

- 4.0 At the outset of an ER Program, separate accounts must be created in an appropriate ER Transaction Registry for the exclusive purpose of receiving, disbursing, or canceling Buffer ERs that will be allocated to the Uncertainty Buffer, the Reversal Buffer and the Pooled Reversal Buffer.
- 4.1 The Reversal Buffer and the Pooled Reversal Buffer accounts will exist separately from any reversal Reversal risk management accounts established under an ER Program to manage reversal Reversal risks for ERs that are not generated during the Crediting Period and are not required to be compliant with the FCPF requirements.
- 4.2 The Buffer Manager shall be given sole authority to access and manage the Uncertainty Buffer<sub>7</sub> Reversal Buffer and Pooled Reversal Buffer accounts, such that transfers of ERs to and from the accounts, and cancelation of Buffer ERs from the accounts, may only be initiated by the Buffer Manager.
- 4.3 The technical requirements and modalities for managing the Uncertainty Buffer, Reversal Buffer and Pooled Reversal Buffer accounts are elaborated in the operational guidance established for the ER Transaction Registry, in accordance with Criterion 38 (Indicator 38.4) of the MF.

#### 5. Allocation of ERs to the Buffer Reserve Accounts

- 5.0 Each time ERs are reported and verified, a portion of the reported ERs must be set aside in the Uncertainty Buffer, Reversal Buffer and Pooled Reversal Buffer accounts.
- 5.1 Once Total ERs are determined for a particular Reporting Period, the ER Program Entity and the World Bank¹ will instruct, or help instruct, as applicable, the administrator of the ER Transaction Registry to establish serial numbers for the amount of Total ERs.
- 5.2 The ER Program Entity and the World Bank or the Buffer Manager will instruct, or help instruct, as applicable, the ER Transaction Registry administrator to transfer and deposit a portion of the serialized ERs, as Buffer ERs, into the Uncertainty Buffer account. This portion shall be determined following Section 6 of the Buffer Guidelines.
- 5.3—The ER Program Entity and the World Bank or the Buffer Manager will instruct, or help instruct, as applicable, the ER Transaction Registry administrator to transfer and deposit a separate portion of the serialized ERs, as Buffer ERs, into the Reversal Buffer account. This portion shall be determined following Section 7 of the Buffer Guidelines.

<sup>1</sup> The World Bank refers to the World Bank acting as Trustee of the Carbon Fund.

- 5.45.3 The ER Program Entity and the World Bank or the Buffer Manager will instruct, or help instruct, as applicable, the ER Transaction Registry administrator to transfer and deposit a separate portion of the serialized ERs, as Buffer ERs, into the Pooled Reversal Buffer account. This portion shall be determined following Section 7 of the Buffer Guidelines.
- 5.55.4 The ER Program Entity and the World the World Bank shall instruct, or help instruct, as applicable, the ER Transaction Registry administrator to transfer from the remaining serialized ERs an amount of ERs designated for transfer to the CF or other buyers into one or more account(s) designated to hold ERs.

#### 6. Determining the Quantity of ERs to Allocate to the Uncertainty Buffer

- 6.0 Uncertainty of Emission Reductions associated with deforestation, forest degradation and enhancements are reported separately if measured through separate (i.e., non-integrated) approaches and when degradation is estimated using proxy data. If non-integrated approaches are used, separate quantities shall be determined for the portion of Total ERs that resulted from avoided deforestation and avoided forest degradation, respectively.
- 6.1 The quantity of Total ERs associated with avoided deforestation shall be multiplied by the appropriate "conservativeness factor" for the aggregate uncertainty of the estimate for ERs (i.e. RL minus monitored and reported emissions and removals), as presented in the following Table 1 (from Criterion 22 of the Methodological Framework). If an integrated approach is used to measure deforestation, forest degradation and/or enhancements together, the conservativeness factor (see Table 1) is applied to the Total ERs only if spatially-explicit activity data (IPCC Approach 3) and high-quality emission factors (IPCC Tier 2) were used in their calculation. Otherwise, as a default, Clause 6.3 of the Buffer Guidelines applies.

**Table 1. Quantification Uncertainty Conservativeness Factors** 

Aggregate Uncertainty of ERs	Conservativeness Factor
≤ 15%	0%
> 15% and ≤ 30%	4%
> 30% and ≤ 60%	8%
> 60% and ≤ 100%	12%
> 100%	15%

- 6.2 If forest degradation is measured through a separate approach using proxy-based approaches, a general conservativeness factor of 15% is applied to the Total ERs associated with forest degradation.
- 6.3 The portion of Total ERs allocated as Buffer ERs to the Uncertainty Buffer shall be equal to the sum of the two amounts calculated in Clauses 6.2 and 6.3 of the Buffer Guidelines.

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## Determining the Quantity of ERs to Allocate to the Reversal Buffer and the Pooled Reversal Buffer

- 7.4 Reversals can be caused both by natural disturbances and by human activities, which may be driven by a range of factors both internal and external to an ER Program.
- 7.5 A certain quantity of ERs out of the Total ERs shall be allocated as Buffer ERs to the Reversal Buffer and the Pooled Reversal Buffer account to help manage the Reversal Risk. This quantity is calculated following each Reporting Period as a percentage of the Total ERs for that Reporting Period minus the quantity of ERs allocated to the Uncertainty Buffer for that Reporting Period.
- 7.6 The percentage of ERs to be set aside in the Reversal Buffer accounts account shall be determined by the World Bank, following consultations with the Program Entity, or by the Buffer Manager, as applicable, in accordance with the Reversal Risk assessment tool below.
- 7.7 The Reversal Risk assessment tool shall be used to determine the Reversal Risk Set-Aside Percentages for each of the Risk Factors listed in the first column of Table 2 below. The full Reversal Risk Set-Aside Percentage for the whole ER Program is calculated as the sum of the Reversal Risk Set-Aside Percentages for each of the Risk Factors. The Risk Indicators in the second column of Table 2 below are provided to assess the Reversal Risk for each of the Risk Factors following the guidelines provided in Annex I. The Reversal Risk is assessed for each Risk Factor (A-D) separately as high, medium or low. Based on the default Reversal Risk Set-Aside Percentage (Table 2, column 3) and depending on the classification of the Reversal Risk for each Risk Factor (A-D) and the corresponding incremental discount (Table 2, column 4), the resulting Reversal Risk Set-Aside Percentage shall be determined.

Table 2. Determination of Reversal Risk Set-Aside Percentage

Risk Factors Risk Indicators		Default Reversal Risk Set- Aside Percentage	Discount (increment)	Resulting Reversal Risk Set-Aside Percentage
Default risk	Not applicable, fixed minimum amount	10%	Not applicable	10%
A. Lack of broad and sustained stakeholder support	Are stakeholders aware of, and/or have positive experience with Emission Reduction Programs, FGRM, benefit sharing	10%	Reversal Risk is considered high: 0% discount; <b>OR</b>	10%
	arrangements etc. or similar instruments in other contexts? • Have complaints, claims or occurrences of conflicts		Reversal Risk is considered medium: 5% discount; <b>OR</b>	5%

	over rights and tenure been addressed?		Reversal Risk is considered low: 10% discount	0%
B. Lack of institutional capacities and/or ineffective	implementing programs and policies?  Is there experience of	10%	Reversal Risk is considered high: 0% discount; <b>OR</b>	10%
vertical/cross sectoral coordination	cross-sectoral cooperation?  Is there experience of collaboration between different levels of government?		Reversal Risk is considered medium: 5% discount; <b>OR</b>	5%
	government.		Reversal Risk is considered low: 10% discount	0%
C. Lack of long term effectiveness in addressing	Lack of long     decoupling deforestation       term     and degradation from economic activities?	5%	Reversal Risk is considered high: 0% discount; <b>OR</b>	5%
, ,			Reversal Risk is considered medium: 2% discount; <b>OR</b>	3%
			Reversal Risk is considered low: 5% discount	0%
D. Exposure and vulnerability to natural disturbances	<ul> <li>Is the Accounting Area vulnerable to fire, storms, droughts, etc2.?</li> <li>Are there capacities and experiences in effectively</li> </ul>	5%	Reversal Risk is considered high: 0% discount; <b>OR</b>	5%
			Reversal Risk is considered medium: 2% discount; <b>OR</b>	3%

	preventing natural distur- bances or mitigating <sup>2</sup> their impacts?	Reversal Risk is considered low: 5% discount	0%			
Actual Reversal Risk Set-Aside Percentage: 10+(Result A+ Result B+ Result C+ Result D) = 10 to						

Actual Reversal Risk Set-Aside Percentage: 10+(Result A+ Result B+ Result C+ Result D) = 10 to 40%

- 7.8 FromThe quantity of ERs out of the Total ERs represented by the Actual Reversal Risk Set-Aside Percentage, as determined in accordance with Table 2 above, half of the Default Risk percentage of 10%) shall be deposited as Buffer ERs into the Pooled Reversal Buffer account while the remainder of the Actual Reversal Risk Set-Aside Percentage shall be deposited as Buffer ERs into the Reversal Buffer account.
- 7.9 In determining the Actual Reversal Risk Set-Aside Percentage after each Reporting Period, the World Bank and the Buffer Manager(s), as applicable, shall take into account the results of any related assessment done by another entity or body authorized by and acting on behalf of the CF (i.e. Validation and Verification Body as described in the Validation and Verification Guidelines).

#### 8. Adjustments to the Uncertainty Buffer

- 8.0 An ER Program may improve its MRV system, including data sampling or measurement techniques, such that the Uncertainty of Total ERs is reduced and the ER Program qualifies for a lower conservativeness factor, as indicated in <a href="Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 2 Table 2 Table 3 Table 3
- 8.1 ER <u>Program Programs</u> that improve their MRV system shall use the improved data sampling or measurement techniques to update estimates for prior Reporting Periods. If such updates result in a lower estimate of Total ERs for prior Reporting Periods, Clause 8.3 applies. If such updates result in a higher estimate of Total ERs for prior Reporting Periods, Clause 8.4 applies.
- 8.2 If updates result in a *lower* estimate of Total ERs for prior Reporting Periods, ERs need to be cancelled from the Uncertainty Buffer account. Then:
  - a) The Buffer Manager shall calculate the quantity of Uncertainty Buffer ERs to be canceled using the following formula:

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<sup>&</sup>lt;sup>2</sup> Activities to mitigate natural disturbance may include education to reduce the risk of uncontrolled fires resulting from slash-and-burn agriculture; periodic fuel removal; establishment and maintenance of fire breaks and towers; deployment and maintenance of fire-fighting equipment (for fire risk); planting of diverse and resistant tree species (for risk of pests or disease); planting of frost, drought, flood, or wind-tolerant species (for extreme weather risk); and use of salinity-tolerant plant species (for salt-water intrusion risk)

 $Q_c = G_{t-1} - G_{t-1 \, updated}$ Formatted: Left Where:  $Q_c$ The quantity of Uncertainty Buffer ERs to be canceled **Formatted Table** The original estimate of Total ERs for the prior Reporting Periods as estimated in  $G_{t-1}$ the respective monitoring report(s) G<sub>t-1 updated</sub> The updated estimate of Total ERs for the prior Reporting Periods, based on the Formatted: Left improved measurements Updated estimates shall only affect Buffer ERs already deposited in the Uncertainty Buffer Formatted: Left account in prior Reporting Periods. Therefore, if Q<sub>c</sub> is greater than the remaining Buffer ERs in the Uncertainty Buffer account from prior Reporting Periods, then the Buffer Manager shall only cancel all Buffer ERs in the Uncertainty Buffer account from prior Reporting Periods and permanently retire their associated serial numbers. If the updated estimates for prior Reporting Periods show the same or a higher uncertainty, no further action is required. If the updated estimates for prior Reporting Periods can be produced such that the Uncertainty of Total ERs is reduced and a lower conservativeness factor applies as indicated in Table 1 Table 1 Table 1, Buffer ERs can potentially be released. The potential quantity of Uncertainty Buffer ERs to be released is calculated as follows:  $Q_R = D_{t-1} - Q_C - (G_{t-1 \, updated} * \, CF_t)$ Formatted: Left Where:  $Q_R$ The quantity of Uncertainty Buffer ERs to be released The remaining Buffer ERs in the Uncertainty Buffer account from prior Formatted: Left  $D_{t\text{-}1}$ **Reporting Periods** The quantity of Uncertainty Buffer ERs to be canceled  $\Omega_{c}$ Formatted: Left The updated cumulative estimate of Total ERs for the prior Reporting Periods,  $G_{t-1 \text{ updated}}$ Formatted: Left based on the improved measurements  $CF_t$ The revised conservativeness factor, after improvements in measurements and Formatted: Left respective reduction in uncertainty If  $Q_R$  is positive then the Buffer Manager may release ERs from the Uncertainty Buffer Formatted: Left equivalent to  $Q_R$  and transfer them to an account designated to hold ERs following the instructions of the ER Program Entity or World Bank, as applicable. If  $Q_R$  is negative then no Uncertainty Buffer ERs can be released for prior Reporting Periods.

a) As appropriate, Sections 5, 6, and 7 of the Buffer Guidelines shall be followed to determine a new quantity of Total ERs for the prior Reporting Periods, as well as revised quantities for allocations to the Uncertainty Buffer, the Reversal Buffer and the Pooled Reversal Buffer.

- b) If the revised quantity of required allocations to the Uncertainty Buffer for the prior Reporting Periods is greater than the original allocation, then additional ERs shall be allocated to the Uncertainty Buffer to make up the difference.
- c) If the revised quantity of required allocations to the Uncertainty Buffer for the prior Reporting Periods is less than the original allocation, then the Buffer Manager may release ERs from the Uncertainty Buffer. The quantity to be released shall be equal to the difference between the original and revised allocation requirements. and transfer them This amount shall be multiplied by the Actual Reversal Risk Set-Aside Percentage, as determined in accordance with Table 2 above, and the resulting number of ERs shall be deposited as Buffer ERs into the Pooled Reversal Buffer account. The remaining ERs shall be transferred to an account designated to hold ERs following the instructions of the ER Program Entity or World Bank, as applicable. Uncertainty Buffer ERs shall only be released if the ER Program has completely replenished any Pooled Reversal Buffer debits in accordance with Section 10.10.The quantity to be released shall be equal to the difference between the original and revised allocation requirements.
- d) Additional allocations of ERs to the Reversal Buffer and the Pooled Reversal Buffer shall be made as necessary, following Section 7 of the Buffer Guidelines.
- 8.4 In addition to determining the quantity of ERs to allocate to the Uncertainty Buffer for each Reporting Period, ER Programs shall calculate the uncertainty of the total Emission Reductions achieved cumulatively during the entire Crediting Period and reported it in the last ER-MR. This reported cumulative uncertainty shall be used to recalculate the quantity of ERs to allocate to the Uncertainty Buffer at the end of the Crediting Period using the approach from section 6 of these Guidelines.
- 8.5 If such a recalculation finds that the quantity of ERs to allocate to the Uncertainty Buffer based on the entire Crediting Period is lower than the cumulative quantity of ERs already allocated to the Uncertainty Buffer during all the Reporting Periods, then the Buffer Manager shall release ERs equal to the difference between the two from the Uncertainty Buffer. This amount shall be multiplied by the Actual Reversal Risk Set-Aside Percentage, as determined in accordance with Table 2 above, and transfer them the resulting number of ERs shall be deposited as Buffer ERs into the Pooled Reversal Buffer account. The remaining ERs shall be transferred to an account designated to hold ERs following the instructions of the ER Program Entity or World Bank, as applicable. Uncertainty Buffer ERs shall only be released if the ER Program has completely replenished any Pooled Reversal Buffer debits in accordance with Section 10.8.
- 8.6 If such a recalculation finds that the quantity of ERs to allocate to the Uncertainty Buffer based on the entire Crediting Period is higher than the cumulative quantity of ERs already allocated to the Uncertainty Buffer during all the Reporting Periods, additional ERs shall be allocated to the Uncertainty Buffer to make up the difference.

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#### 9. Disposal of Uncertainty Buffer ERs at the End of the Term of the CF ERPA

- 9.0 If the ER Program Entity does not wish to maintain an uncertainty buffer reserve beyond the end of the Crediting Period, then the Buffer Manager shall cancel the ERs in the Uncertainty Buffer account in the ER Transaction Registry prior to the end of the Term of the CF ERPA. ERs shall be canceled by removing them from the Uncertainty Buffer account and permanently retiring their associated serial numbers.
- 9.1 If the ER Program Entity wishes to continue maintaining a buffer reserve serving the same function as the Uncertainty Buffer beyond the end of the Crediting Period, then the Buffer Manager shall transfer ERs from the Uncertainty Buffer account in the ER Transaction Registry to an equivalent buffer account designated and controlled by the ER Program Entity or any other entity designated by the ER Program Entity prior to the end of the Term of the CF ERPA. Uncertainty Buffer ERs shall only be transferred to an equivalent buffer account if the ER Program has completely replenished any Pooled Reversal Buffer debits in accordance with Section 10.10.

10.Compensating for Reversals Using the Reversal Buffer and the Pooled Reversal Buffer

10.0 A "Reversal" occurs if one or more disturbance event(s) result in the aggregate amount of ERs measured and verified within the Accounting Area for one Reporting Period being less than the aggregate amount of ERs measured and verified within the Accounting Area for the previous Reporting Period(s). Reversals can occur in two or more consecutive Reporting Periods.

10.0

- 10.1 The Program Entity shall inform the World Bank of a Reversal Event and identify the occurrence of a Reversal Event in its period reporting, as specified in an ERPA.
- 10.2 In the event that the Program Entity and the World Bank disagree on the occurrence, cause and/or scope of a Reversal Event, if requested by the <u>TrusteeWorld Bank</u>, the occurrence, cause and/or scope of a Reversal Event shall be assessed and Verified by a Validation and Verification Body.
- 10.3 Subject to Clause 10.3 of the Buffer Guidelines, the World Bank determines whether a Reversal has occurred and, if so, notifies the Buffer Manager accordingly. A Reversal can only occur if ERs have been transferred to ER Program account, the Reversal Buffer, the Pooled Reversal Buffer and the Uncertainty Buffer, for at least one prior Reporting Period.
- 10.4 If a Reversal occurs, then Buffer ERs shall be canceled from the <a href="ER Program's cumulative">ER Program's cumulative</a>
  contribution to the Pooled Reversal Buffer account to compensate for the Reversal. <a href="Where the reversal exceeds the amount of cumulative buffer ERs that the ER Program has contributed to the Pooled Reversal Buffer, ERs from the ER Program's Uncertainty Buffer shall be cancelled to compensate for the remaining reversal. If the number of ERs in the Uncertainty Buffer does not suffice to fully address the reversal, then any Excess ERs held by the ER Program shall be cancelled, and finally, if the reversal amount is still not met, Pooled Reversal Buffer ERs shall be cancelled until the reversal is fully compensated.

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10.5 The quantity of Buffer ERs canceled from the Reversal Buffer accountin accordance to Section 10.5

above shall be equal to the difference between the ER Program's cumulative ERs up to the year before the reversal took place and the cumulative ERs in the year of the reversal, noting that this quantity should be limited to the sum of sum of cumulative amounts, in that same period, of transferrable ERs³, generated in previous Reporting Periods plus the cumulative contributions by the ER Program to the Reversal Buffer, the Pooled Reversal Buffer, and and the Uncertainty Buffer, and any Pooled Reversal Buffer replenishments made by the ER Program. by the ER Program up to the moment of the reversal. Therefore, the quantity of Buffer ERs affected by the Reversal shall be calculated as follows:

 $R_c = T_{t-1} - T_t$ 

 $R_c \le C + PB + PB + UB + RP^4$ 

#### Where:

R<sub>c</sub> = Quantity of Buffer ERs canceled from the Pooled Reversal Buffer account

T<sub>t-1</sub> = Cumulative quantity of Total ERs estimated for prior Reporting Periods (as an aggregate of ERs accumulated since the Crediting Period Start Date)

T<sub>t</sub> = Cumulative quantity of Total ERs estimated including the current Reporting Period (as an aggregate of ERs accumulated since the Crediting Period Start Date)

C = Cumulative quantity of transferrable ERs estimated including the current Reporting Period (as an aggregate of transferable ERs accumulated since the Crediting Period Start Date)

B = Cumulative ER Program's Reversal Buffer contributions estimated including the current Reporting Period (as an aggregate of Reversal Buffer ERs accumulated since the Crediting Period Start Date).

PBPB = Cumulative ER Program's Pooled Reversal Buffer contributions

estimated\_contributions estimated including the current Reporting Period (as an aggregate of Pooled Reversal Buffer ERs accumulated since the Crediting Period Start Date),

UB = Cumulative ER Program's Uncertainty Buffer contributions estimated including the current Reporting Period (as an aggregate of Uncertainty Buffer ERs accumulated since the Crediting Period Start Date)

RP = Cumulative ER Program's Pooled Reversal Buffer replenishments estimated including the current Reporting Period (as an aggregate of Reversal Buffer ERs replenished since the Crediting Period Start Date)

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<sup>&</sup>lt;sup>3</sup> Transferrable ERs are equal to Total ERs minus the set aside Buffer ERs (including uncertainty and reversal buffer

<sup>&</sup>lt;sup>4</sup> R<sub>c</sub> cannot be higher than the sum of cumulative transferable ERs and cumulative buffer contributions (to the Reversal Buffer, both the Pooled Reversal Buffer and the Uncertainty Buffer) and the Pooled Reversal Buffer replenishments up to T<sub>t</sub> because the potential for reversals is limited to the amount of cumulative Total verified ERs produced up to that period. Where the difference between T<sub>t-1</sub> and T<sub>t</sub> exceeds that level, excess emissions should be considered as non-performance instead of as reversals. The rationale for this is that only the Total verified ERs (i.e., those transferable and the ones deposited/replenished in the buffers) are susceptible of being reversed, and therefore the "reversal liability" of the ER Program in case of a reversal should be limited to the volume of Total ERs it has generated up to the moment the reversal event took place.

10.6 Buffer ERs shall be canceled by removing them from the Reversal Buffer account, and permanently retiring their associated serial numbers.

10.7 10.6 If the amount of Buffer ERs in the Reversal Buffer account does not suffice to fully compensate for the Reversal, then the shortfall amount of Buffer ERs in the Reversal Buffer account shall be covered through an equivalent amount of Buffer ERs from the Pooled Reversal Buffer. In this case, the The World Bank shall instruct the Buffer Manager(s) to cancel Buffer ERs from each ERs from the relevant accounts in accordance with Section 10.5 above. the Pooled Reversal Buffer ERs beyond the contribution of the ER Program's Pooled Reversal Buffer account Program affected by the reversal shall be cancelled on a pro-rata basis, Buffer ERs shall be canceled by removing them from the Pooled Reversal Buffer account and other applicable accounts, following Section 10.5, and permanently retiring their associated serial numbers.

10.810.7 The ER Program Entity and the World Bank or the -Buffer Manager shall instruct, or help 
instruct, as applicable, the ER Transaction Registry administrator to cancel such Buffer ERs in the
Reversal Buffer and Pooled Reversal Buffer account, and other relevant accounts, following Section
10.5, as applicable.

ERs from the Reversal Buffer and the Pooled Reversal Buffer and the Uncertainty Buffer, where applicable, cancelled as a consequence of a Reversal need to be replenished by the ER Program before the end of the Crediting Period. In order to do so, all the ERs generated by the ER Program after a reversal shall be transferred to the Reversal Buffer and the Pooled Reversal Buffer and Uncertainty Buffer, where applicable, until at least 50% of the Program's debit (including, if applicable, any subsequent Reversals) has been covered. After this level has been reached, the ER Program may transfer up to 30% of the ERs generated, while the remaining amount shall be used to cover the rest of the Program's debt with the Reversal Buffer and the Pooled Reversal Buffer and Uncertainty Buffer, where applicable, until its debiti is they are fully covered replenished. If the Reversal takes place from the third year of the Crediting period on, or if it represents more than half of the ER Program's current net Reversal Buffer and Pooled Reversal Buffer contributions of the ER Program, the ER Program shall not be able to transfer any ERs generated subsequently until it has fully replenished the amount of cancelled buffer ERsPooled Reversal Buffer ERs (and, if applicable, Uncertainty Buffer ERs) resulting from such (and any subsequent) Reversal. Likewise, the affected ER Program shall not be to transfer any Excess ERs held in its account before the reversal until it has replenished the Reversal Buffer and the Pooled Reversal Buffer in accordance with the requirements set out in this section.

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<sup>&</sup>lt;sup>5</sup> In the event that neither the Reversal Buffer nor the Pooled Reversal Buffer are able to offset the effect of a Reversal in full, the remaining effect of a Reversal will be addressed in accordance with the terms of the Emission Reductions Payment Agreement and the General Conditions applicable thereto.

<sup>&</sup>lt;sup>6</sup> In the event that the Pooled Reversal Buffer is not able to offset the effect of a Reversal in full, the remaining effect of the Reversal will be addressed in accordance with the terms of the Emission Reductions Payment Agreement and the General Conditions applicable thereto.

<sup>&</sup>lt;sup>2</sup> The current net Reversal Buffer and Pooled Reversal Buffer contributions of an ER Program represent the program's cumulative contributions to such buffers, less reversal cancellations plus any replenishments made up to the date when the reversal took place.

Pooled Reversal Buffer ERs cancelled beyond the contribution of the ER Program shall be replenished first, followed by the ER Program's ER contributions to such buffer, and finally, by Reversal Uncertainty Buffer ERs cancelled because of a reversal in accordance with Sections Section 10.7 and 10.85 above. ERs generated subsequently to a reversal that are used to replenish the Reversal Buffer and the Pooled Reversal Buffer shall not be subject to the contribution to the Uncertainty Buffer set out in Section 6.4 above.

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#### 11. Releasing Buffer ERs from the Pooled Reversal Buffer

- 11.0 Reversal Risk assessments after subsequent Reporting Periods may, in accordance with Table 2 above, determine a reduced risk exposure than was determined after the previous Reporting Period (e.g., from high to medium risk or from medium to low risk). Such reduced risk exposure shall reduce the required actual set-aside percentage for Reversal Risks and allow for a release of a corresponding amount of Buffer ERs from the Pooled Reversal Buffer.
- 11.1 If the Reversal Risk Set-Aside Percentages are increased, the amount of ERs in the <u>Pooled</u> Reversal Buffer shall be determined in accordance with Section 7 of the Buffer Guidelines.
- 11.2 If the required amount of Buffer ERs set aside for the <a href="Pooled">Pooled</a> Reversal Buffer for the current
  Reporting Period was reduced below the required amount of Buffer ERs set aside in prior Reporting
  Periods, then the Buffer Manager shall release Buffer ERs from the <a href="Pooled">Pooled</a> Reversal Buffer account
  in an amount equal to the difference of such required amounts of Buffer ERs and transfer those
  released Buffer ERs into an account designated to hold ERs, following the instructions of the ER
  Program Entity and the World Bank. <a href="Buffer ERs shall only be released if the ER Program has completely replenished any Pooled Reversal Buffer debits in accordance with Section 10.9.">Section 10.9.</a> The
  quantity of Buffer ERs to be released from the <a href="Pooled">Pooled</a> Reversal Buffer account shall be determined
  using the following formula:

$$Q_r = (R_{t-1} - R_t) \times N_{t-1}$$

Where:

Qr = The quantity of Buffer ERs to be released from the <u>Pooled</u> Reversal Buffer account

R<sub>t-1</sub> = The actual set-aside percentage for the <u>Pooled</u> Reversal Buffer applied to all Reporting Periods prior to the current Reporting Period <sup>8</sup>

R<sub>t</sub> = The actual set-aside percentage for the <u>Pooled</u> Reversal Buffer applicable to the current Reporting Period

N<sub>t-1</sub> = The cumulative total of transferrable ERs for all Reporting Periods prior to the current Reporting Period

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<sup>&</sup>lt;sup>8</sup> Because the set-aside percentage is updated and retroactively applied each Reporting Period, the same percentage shall apply to all prior Reporting Periods.

- 11.3 If Qr is greater than the number of Buffer ERs currently in the <u>Pooled</u> Reversal Buffer account, then the quantity of Buffer ERs remaining in the Pooled Reversal Buffer account may be released.
- 11.4 The required set aside for the current Reporting Period is calculated following the procedure described in Section 6 above. The respective quantity of Buffer ERs is transferred to the <u>Pooled</u> Reversal Buffer account after the quantity of Buffer ERs to be released were transferred out of the Pooled Reversal Buffer account.

# 12. Disposal of Reversal Buffer ERs and Pooled Reversal Buffer ERs at the End of the Term of the CF ERPA

- 12.0 At the latest one (1) year before the end of the Term of the CF ERPA, the ER Program shall have in place a robust Reversal Management Mechanism that addresses the risk of Reversals beyond the Term of the CF ERPA and is equivalent to the ER Program CF Pooled Reversal Buffer. A Reversal Management Mechanism is considered to be equivalent to the ER Program CF Pooled Reversal Buffer if:
  - a) It is a pooled buffer;
  - It covers potential reversals of the units generated under the ER Program during the Crediting Period;
  - c) It allows the transfer of the Buffer ERs from contributed by the ER Program CFto the Pooled Reversal Buffer;
  - d) The reversal risk set-aside percentage calculated under the Reversal Management Mechanism is equal to or higher than the actual reversal risk set-aside percentage of the ER Program-CF-Buffer<sup>9</sup>;
  - e)—It has in place a periodic monitoring and third-party Verification mechanism for a period from the end of the Crediting Period to 31 December 2037 to confirm if there have been Reversals and makes monitoring and verification reports publicly available; and
  - f) The Reversal Management Mechanism is operational and able to address identified Reversals.
  - e) It has in place a periodic monitoring and third-party Verification mechanism for a period from the end of the Crediting Period Term of the CF ERPA to 31 December 2037 to confirm if there have been Reversals and makes monitoring and verification reports publicly available; and
  - f) The Reversal Management Mechanism is operational and able to address identified Reversals.
- 12.1 If the ER Program has in place a robust Reversal Management Mechanism equivalent to the ER Program CF Pooled Reversal Buffer prior to the end of the Term of the CF ERPA, then the Buffer Manager shall, prior to the end of the Term of the CF ERPA:

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<sup>&</sup>lt;sup>9</sup> The Reversal Risk Set-Aside Percentage calculated under the Post-Crediting Period Reversal Management Mechanism and the actual reversal risk set-aside percentage of the ER Program CF Buffer will be determined for the latest Reporting Period ending before the end of the Crediting Period, and Period and will be verified by the Validation and Verification Body at Verification.

- a) Transfer all Buffer ERs remaining in the Reversal Buffer account in the ER Transaction Registry to such other buffer reserve account designated and controlled by the ER Program Entity or any other entity designated by the ER Program Entity, and
- b) 13. TransferCrediting Period Term of the CF ERPA, transfer a portion of the Buffer ERs remaining in the Pooled Reversal Buffer account in the ER Transaction Registry (equivalent to the ER Program's proportional share of any amount of Buffer ERs in the Pooled Reversal Buffer remaining at the end the ER Program's Term of the CF ERPA, but not exceeding the ER Program's original contribution) to such other buffer reserve account designated and controlled by the ER Program Entity or any other entity designated by the ER Program Entity.
- 12.2 If the ER Program does not have in place a Reversal Management Mechanism equivalent to the ER 
  Program CF Pooled Reversal Buffer prior to the end of the Term of the CF ERPA, then the Buffer 
  Manager shall, prior to the end of the Term of the CF ERPA:
  - a) Cancel all Buffer ERs remaining in the Reversal Buffer account in the ER Transaction Registry, and
- ER Transaction Registry (equivalent to the ER Program's proportional share of any amount of Buffer ERs in the Pooled Reversal Buffer remaining at the end of the ER Program's Term of the CF ERPA, but not exceeding the ER Program's original contribution)
- 13.2 Buffer ERs shall be canceled by removing them from the Reversal Buffer and Pooled Reversal Buffer account and permanently retiring their associated serial numbers.

#### 13. CORSIA eligibility

- 13.0 If at the end of the Crediting Period Term of the CF ERPA an ER Program wishes to supply "CORSIA" Eligible Emissions Units" (as defined under CORSIA), the ER has not completely replenished the Pooled Reversal Buffer in accordance with Section 10.8 above, any remaining Excess ERs held by such Program shall have in place a robust Reversal Management Mechanism that addresses the risk of Reversals beyond the Term of be cancelled up to the CF ERPA and is equivalent amount required to the ER Program CF Buffer. Acompensate its Pooled Reversal Management Mechanism is considered to be equivalent to the ER Program CF-Buffer debit. if:
  - a) It is a buffer;
  - b) It covers potential reversals of the units generated under the ER Program during the Crediting Period:
  - c)—It allows the transfer of the Buffer ERs from the ER Program CF Buffer;
  - d) The reversal risk set aside percentage calculated under the Reversal Management Mechanism is equal to or higher than the actual reversal risk set aside percentage of the ER Program CF Buffer<sup>10</sup>;

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<sup>&</sup>lt;sup>10</sup> The Reversal Risk Set-Aside Percentage calculated under the Post-Crediting Period Reversal Management Mechanism and the actual reversal risk set-aside percentage of the ER Program CF Buffer will be determined for the latest Reporting Period ending before the end of the Crediting Period, and will be verified by the Validation and Verification Body at Verification.

- e) It has in place a periodic monitoring and third-party Verification mechanism for a period from the end of the Crediting Period to 31 December 2037 to confirm if there have been Reversals and makes monitoring and verification reports publicly available; and
- f) The Reversal Management Mechanism is operational and able to address identified Reversals.
- the ER Program Entity and allows the World Bank, in its capacity as trustee of funds made available from the FCPF for this purpose, to (i) carry out a desk review of the publicly available monitoring and verification reports of the ER Program for Reversals and (ii) inform CORSIA of any Reversals and compensation (through replacement of the CORSIA Eligible Emissions Units) under the ER Program's Reversal Management Mechanism, from the end of the Crediting Period through 31 December 2037debit.

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## 14. Acronyms

CF	Carbon Fund
ERs	Emission Reductions
ERPA	Emission Reductions Payment Agreement
IBRD	International Bank for Reconstruction and Development
FCPF	Forest Carbon Partnership Facility
MF	Methodological Framework of the Carbon Fund dated December 20, 2013

## Annex I: Requirements on the application of the Reversal Risk Assessment Tool and the validation and verification of its outcomes

Following paragraph 7.8 of the FCPF Buffer Guidelines, the Reversal Risk assessment tool shall be used to determine the Reversal Risk Set-Aside percentages for each of the Risk Factors listed in the first column of Table 2 of such Guidelines. The Risk Indicators in the second column of such table are provided to assess the Reversal Risk for each Risk Factor. The Reversal Risk is assessed for each Risk Factor separately as high, medium or low.

In order to facilitate the determination of the Reversal Risk level, the requirements provided below shall be followed when assessing the Risk Indicators found in Table 2 of the Buffer Guidelines. REDD Countries may deviate from the below guidelines (e.g., providing additional risk indicators), but in such a case, the REDD Country shall provide clear, complete and adequate justification of the reason for deviation, and the VVB shall assess these choices and apply the validation-verification principles described in the Validation and Verification Guidelines.

Evidence shall be provided to support the selection of a Reversal Risk level for each Risk Indicator as follows:

#### Risk factor A. Lack of broad and sustained stakeholder support

Risk Indicator: Are relevant stakeholders aware of, and/or provided feedback to and have positive experience with Emission Reduction Programs, FGRM, benefit sharing arrangements and/or similar instruments in other contexts?

This risk indicator shall be analyzed through three separate sub-indicators:

- a) ER Program consultations' procedures, processes, and outcomes
- b) Performance of the Benefit Sharing Plan; and
- c) Performance of the FGRM.

The overall risk level for this indicator shall be based on the risk level of the highest scoring sub-indicator (i.e., the one representing the highest risk).

#### ER Program consultations' procedures, processes and outcomes

In the case of the first sub-indicator, when assessing stakeholder awareness of, and experiences with, the ER Program and its related instruments (e.g., the FGRM and the BSP), the evaluation shall be made based on the procedures for engagement when they are planned, implemented and reported on, and the quality of public consultations. It is assumed that conducting broad and inclusive consultations following an agreed and disclosed stakeholders' engagement and/ or consultations plan would ensure the effective and meaningful participation of all key stakeholders and likely facilitate the acceptance of such instruments (and of the ER Program itself, thus contributing to its continuity and the permanence of its ERs and removals).

The evaluation of this sub-indicator shall consider three attributes:

- Evidence of designing, planning and disclosure of clear and participatory procedures for
  consultations with stakeholders affected (or to be affected) by the ER Program, including
  information on the number of people to be engaged in consultations disaggregated by the type
  of stakeholders (e.g., government officials, civil society representatives, minority community
  representatives such as Indigenous Peoples, ethnic minorities, migrant communities, etc., as
  well as those stakeholders that can be key for triggering reversalsReversals) and gender,
  depending on the local context;
- 2. Evidence that the clear and participatory procedures and plans for consultations and reporting on them have been followed, and on how the feedback obtained is reflected in the ER program.
- 3. The availability of information to carry out the assessment.

The assessment shall be carried out using ex-ante (pre-ER Program implementation) and ex-post (after the ER Program start) information. Where the assessment is carried out before the ER Program start, the information required to perform it should be drawn from the SESA (or similar social and environmental assessments), ERPD (e.g., the draft BSP and other documents), ESMF and other equivalent safeguards' management frameworks, stakeholders' engagements and other plans. Ex-post, this information shall be obtained from the ER monitoring reports (Annex 1, 2). All relevant documents shall be identified and included in the assessment. These can be WB aide memoires, Implementation Support Reports (ISRs), Third Party Monitoring and FGRM reports, and other stakeholders' engagement and safeguard-related reports. Ex-post assessments shall only be applied after the third year of implementation of the ER Program (i.e., once data for at least two years is available).

The risk score shall be determined as the combined risk of the three attributes mentioned above, as follows:

- 1. The existence of clear and participatory procedures for consultations with key stakeholders affected (or to be affected) by the ER program with considerations of the proportional engagement by type shall be rated as entailing a low risk if these plans and procedures are participatory, proportionally inclusive (proportionality is defined according to the purposes of the consultations, but with community representatives generally making not less than 60%, civil society representatives not less than 10%, and women not less than 35% of all consulted stakeholders) and publicly disclosed; medium risk where the procedures are clear and participatory but do not engage all key types of stakeholders proportionally; and high risk if the procedures are not clear, not proportionally participatory, and not disclosed.
- 2. Implemented proportionally participatory consultations with key stakeholders affected (or to be affected) by the ER Program should be rated as entailing a low risk if there is a disclosed reporting on the consultations that were conducted as planned or broader, with feedback captured in the report and reflected in the program; medium risk if reporting on the consultations conducted as planned, and feedback captured in the report and reflected in the program but not disclosed; and a high risk if there is not disclosed reporting on the consultations or consultations did not follow the disclosed plan.
- 3. Regarding the third attribute, related to the availability of information, whenever there is not sufficient information on the engagement of all key stakeholders (by type and gender) in the

preparation and implementation of the ER Program to carry out the above assessments, the risk score of this aspect shall be considered high. Where enough information is available, the risk is

The highest risk level of the three attributes evaluated above represents the combined risk level of this sub-indicator.

#### Performance of the Benefit Sharing arrangements

The engagement and support of stakeholders in the preparation and implementation of the BSP established for the ER Program or similar programs is an important predictor of communities buy-in and the long-term sustainability of the ER measures and results. Before the start of the ER Program, the assessment of this indicator shall rely on the analysis of benefit sharing mechanisms proposed, feedback from stakeholders, and how it was reflected in the final benefit sharing plan. If there are other similar programs already implemented in the ER accounting area, the assessment shall incorporate their information. Once the ER Program has been operating for at least 2 years, the assessment shall be based on the performance of the program's BSP.

The assessment shall be carried out using various sources:

- Ex-ante assessment: The level of awareness, engagement and support may be assessed based on records on, e.g., the feedback from the stakeholders and how they were considered in the BSP process of the associated program, the resources available for such program and the actual demand from stakeholders. If the demand (the number of requests to participate in the program) is higher than the resources available to support activities, it shall be deemed that such program enjoys high acceptance among stakeholders. Likewise, to ascertain if a program has been effective in disbursing resources (i.e., if the associated benefit sharing mechanism has worked well), records on the expected and actual dates of disbursements shall be used. Late disbursements shall be considered as indicators that the program's effectiveness distributing resources is low, and thus, that the risk of stakeholder withdrawal may be high. Actual disbursements below the budgeted ones would indicate that some stakeholders may have abandoned the program, which shall also result in a high risk score.
- Ex-post analysis: Information regarding consultations on BSP, reports on BSP preparation and implementation, on defining beneficiaries and benefits, FGRM and ER Monitoring reports, and other relevant reports prepared by the WB task teams and by the Program Entity, and by third party monitors (if available).

For both the ex-ante and the ex-post analysis, when there is no sufficient information and a well-functioning feedback mechanism to allow for robust assessment, random surveys could be conducted to understand the level of acceptance of such a program and level of engagement.

Risk scores shall be determined as:

• Low risk: Benefit sharing mechanisms and other similar instruments have been developed incorporating feedback from stakeholders and used as planned (i.e., by more than 80% of their

- expected number), AND/OR feedback mechanisms reflect a low level of complaints, i.e., less than 30% of complaints relate to benefit sharing.
- **Medium risk**: Benefit sharing mechanisms and other similar instruments have been used by less than 60% of the expected number of stakeholders participating in the program AND/OR feedback mechanisms reflect a medium level of complaints with up to 60% of complaints relate to benefit sharing.
- High risk: Benefit sharing mechanisms and other similar instruments have been used by less
  than 30% of the expected stakeholders participating in the program AND/OR feedback
  mechanisms reflect high level of complaints, i.e., up to 80% of complaints or more relate to
  benefit sharing, OR there is insufficient information to carry out the assessment.

#### Performance of the FGRM

The existence and adequate operation of a Feedback and Grievance Redress Mechanism is critical to gain and sustain stakeholders' support, and thus, for the long-term success of any program. The assessment of this sub-indicator therefore relies on the existence of such a mechanism and its performance, as well on the availability of information needed for the analysis. As with the previous sub-indicator, information to carry out the analysis should be drawn, ex-ante, from the experience with existing FGRM applied in the context of similar programs, and ex-post, from the actual performance of the FGRM used for the ER Program once at least two years of data have been gathered.

Risk scores are as follows:

- Low risk: There is a FGRM functioning according to the established plan, procedures, and processes with a disclosed publicly reporting.
- Medium risk: There is a FGRM functioning according to the established plan, procedures, and processes but no publicly disclosed reporting.
- High risk: There is a FGRM functioning but no evidence of its following the established plan, procedures, and processes and no publicly disclosed reporting OR the FGRM is not functioning OR information is lacking to carry out the assessment.

Risk Indicator: Have complaints, claims or occurrences of conflicts over rights and tenure been addressed?

The effectiveness and fairness in addressing complaints, claims or resolving issues and/or conflicts on land and forest resources related to the ER Program shall be assessed by reviewing documents related to the ER Programs (ERPD, BSP, safeguards instruments) and reports of the feedback mechanisms (FGRM), ER Monitoring Reports, other PE and safeguards reports, surveys, and other sources relevant to local circumstances. Since each of these sources individually usually provides only a marginal view of the situation, every effort should be made to use more than one of them to produce a more comprehensive assessment. As for the previous risk indicator, ex ante (i.e., based on existing data from similar programs carried out in the ER Program jurisdiction) and ex post (i.e., based on the ER Program

data) assessments shall be carried out. Likewise, ex post assessments shall only be applied after the third year of implementation of the ER program (i.e., when at least two years of data are available).

For the purposes of this analysis, mechanisms for addressing the complaints, claims or conflict on land and resource related to the ER Program shall be deemed effective and fair if there are clear mechanisms incorporated in the BSP/ER Program documents to address them properly.

Risk scores should be determined as:

- Low risk: There are legal instruments, clear arrangements, mechanisms and frameworks to
  manage complaints, claim or dispute resolution processes or customary and/or communitybased mechanisms for conflict resolution in place in that have shown demonstrated
  effectiveness. Feedback mechanisms reflect high level of complaints, claims, or conflicts
  addressed (more than 80% of complaints on the land and resource related to the ERP have been
  addressed and/ or resolved in a timely manner).
- Medium risk: There are legal instruments, clear arrangements, mechanisms and frameworks to
  manage complaints, claim or dispute resolution processes or customary and/or communitybased mechanisms for conflict resolution in place have shown limited effectiveness. Feedback
  mechanisms reflect a good level of complaints, claims or conflicts addressed (more than 60% of
  complaints, claims or conflicts on land and resource have been addressed and/ or resolved in a
  timely manner).
- High risk: There are no legal instruments, clear arrangements, mechanisms and frameworks to
  manage complaints, claim or dispute resolution processes or customary and/or communitybased mechanisms for conflict resolution in place have shown to be ineffective. Feedback
  mechanisms reflect a low level of complaints addressed (less than 40% of complaints, claims or
  conflicts on land and resource have been addressed and/ or resolved in a timely manner).

The final risk score for Risk factor A shall be the lowest score of the two Risk Indicators above.

#### Risk factor B. Lack of institutional capacities and/or ineffective vertical/cross sectoral coordination

Risk Indicator: Is there a track record of key institutions in implementing programs and policies?

The assessment of the track record of key institutions in implementing programs and policies shall consider as "key" all institutions included in Section 1 of the ERPD. Additionally, institutional arrangements established to implement programs shall be considered.

The overall risk level for this indicator shall be determined considering the average years of experience of the whole group of key institutions in the last 10 years. The assumption for using the average is that, if most key institutions have a long track record implementing programs, they may support and complement a minority of newer institutions with less experience. When estimating the years of experience of each key institution or institutional arrangement, only those policies and programs directly related to the activities proposed in the ER Program and that are ongoing or have recently finished (i.e., were terminated at most 2 years before the risk assessment is carried out) shall be taken

into account. Therefore, an explanation shall be provided for each key institution showing the similarities between the ER Program activities and such policies and programs, as well as information on their termination date if they are not ongoing.

Acceptable information to carry out this assessment include national strategies, sectoral plans, programs, budgets and reports (including monitoring reports) where such programs and their implementation arrangements are described and through which their actual implementation can be demonstrated and their results are provided. This information shall be offered for each of the years of claimed institutional experience in the implementation of policies and programs. The lack of sufficient information to demonstrate these claims shall result in a high risk score.

Ex-ante and ex-post assessments are similar, the only difference being that, for the ex-post assessments, the years of experience gained by key institutions as a result of the implementation of the ER Program shall be considered (i.e., the ex-post estimate shall include the years before and after the ER Program implementation).

#### Risk scores shall be:

- Low risk: Together, all the key institutions involved in the implementation of the ER Program average 8 or more years of experience in the 10 years before the date of the <a href="reversal-Reversal">reversal-Reversal</a> risk assessment executing policies and programs directly related to the activities described in the ERPD that are part of the ER Program.
- Medium risk: Together, all the key institutions involved in the implementation of the ER
  Program average 5 or more years of experience 10 years before the date of the reversalReversal
  risk assessment executing policies and programs directly related to the activities described in
  the ERPD that are part of the ER Program.
- High risk: Together, all the key institutions involved in the implementation of the ER Program
  average less than 5 years of experience 10 years before the date of the reversal Reversal risk
  assessment executing policies and programs directly related to the activities described in the
  ERPD that are part of the ER Program OR there is not information enough to support the claims
  regarding the experience of key institutions.

Risk Indicator: Is there experience of cross-sectoral cooperation?

Cross-sectoral cooperation may be reflected in the design and alignment of policies and programs, the operation of working groups, joint research groups, and the implementation of activities on the ground. Such cooperation may happen at any level (from national to local) and across levels. In all cases, the cross sectoral cooperation actions considered to assess this indicator shall be relevant to the activities and objectives of the ER Program and shall have directly contributed to REDD+-related objectives.

In order to prove the experience in cross-sectoral cooperation, a description of the cooperation activities shall be provided (which shall discuss how they have contributed to achieving REDD+ objectives), together with an explanation of how they are related to the ER Program and evidence that

such activities are ongoing or recent (i.e., they were finished at most 2 years before the risk assessment is carried out).

Information to support the assessment may vary widely depending on the type of cooperation activity and may include formal agreements, minutes of meetings, program reports, etc. This information shall cover all the years for which cooperation has taken place that are relevant for this assessment. The lack of sufficient information shall be reflected in a high-risk score.

Ex-ante and ex-post assessments are the same, the only difference being that, for the ex-post assessments, the years of cross-sectoral cooperation experience resulting from the implementation of the ER Program shall be considered.

Risk scores for this indicator shall be defined as follows:

- Low risk: Together, all the cross-sectoral cooperation initiatives relevant to, or involved in, the ER Program average 8 or more years of experience in the 10 years before the date of the reversalReversal risk assessment.
- Medium risk: Together, all the cross-sectoral cooperation initiatives relevant to, or involved in, the ER Program average 5 or more years of experience in the 10 years before the date of the reversalReversal risk assessment.
- High risk: Together, all the cross-sectoral cooperation initiatives relevant to, or involved in, the
  ER Program average less than 5 years of experience in the last 10 years before the date of the
  reversalReversal risk assessment, OR there is not information enough to support the claims
  regarding the experience of key institutions.

Risk Indicator: Is there experience of collaboration between different levels of government?

The requirements for cross-sectoral cooperation provided in the paragraph above shall apply *mutatis mutandis* when assessing the experience of collaboration between different levels of government.

The final risk score for Risk factor B shall be the lowest score (i.e., the highest risk) of the three Risk Indicators above.

#### Risk factor C. Lack of long-term effectiveness in addressing underlying drivers

Risk Indicator: Is there experience in decoupling deforestation and degradation from economic activities?

It is considered that an intervention has achieved decoupling deforestation and degradation from economic activities if it has consistently resulted over time in lower levels of deforestation and/or degradation with the same or higher economic outputs, compared to the data before the start of such intervention.

Before ER Program implementation (ex-ante), it shall be shown (for instance, based on expert judgement or a qualitative demonstration using trends) that decoupling has been achieved for at least 5 consecutive years through interventions carried out by the key institutions involved in the ER Program in the last 15 years before the risk assessment, either in the ER Program area or in other areas (see Box 1 for a simplified example). Ex-post, evidence shall be provided that the ER Program activities have led to decoupling after the first two years of the ER Program implementation.

In both the ex-ante and ex-post cases the identification of economic activities leading to deforestation and degradation shall be supported by an analysis of drivers. Moreover, it shall be shown that before the intervention the levels of economic activity and the levels of deforestation or degradation were in fact associated (i.e., if decoupling happened before the start of the intervention, it shall not be claimed that it was due to its implementation). Information shall be provided showing how the proposed intervention addresses the economic activities leading to deforestation and degradation. Additionally, evidence shall be provided to demonstrate that the reduction in deforestation or degradation caused by the intervention was not in fact due to the displacement of activities to areas not covered by such intervention.

Sources of information for the ex-ante assessment may include deforestation and degradation estimates from national or internationally recognized sources (e.g., GFW), as well as logging statistics (for degradation) and national statistics. Although estimates do not require high accuracy, they shall allow to establish that decoupling has been achieved and an explanation should be provided proving that this conclusion is not due to the use of low-quality data for the assessment. Ex-post, data from the ER Program monitoring reports shall be used. For both ex-ante and ex-post assessments, lack of information to determine if decoupling has been achieved shall lead to a high risk score.

#### Risk scores shall be defined as:

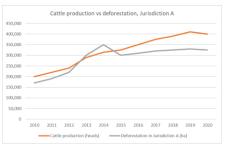
- Low risk: Ex-ante: there is evidence of 3 or more programs, policies or regulations run by key ER
  Program institutions that have decoupled deforestation and/or degradation from economic
  outputs for at least 5 consecutive years in the ER Program jurisdiction in the 15 years before the
  risk assessment. Ex-post: the ER Program has achieved decoupling for at least 4 consecutive
  years since its start.
- Medium risk: Ex-ante: there is evidence of at least 2 programs, policies or regulations run by key
  ER Program institutions that have decoupled deforestation and/or degradation from economic
  outputs for at least 5 consecutive years in the ER Program jurisdiction in the 15 years before the
  risk assessment. Ex-post: the ER Program has achieved decoupling for at least 2 consecutive
  years since its start.
- High risk: Ex-ante: there is no evidence of any programs, policies or regulations run by key ER
   Program institutions that have decoupled deforestation and/or degradation from economic
   outputs for at least 5 consecutive years in the ER Program jurisdiction in the 15 years before the
   risk assessment OR there is no information available to carry out the assessment. Ex-post: the
   ER Program has achieved decoupling for less than 2 consecutive years since its start OR there is
   not enough information to carry out the analysis.

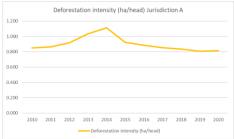
#### Box 1. Example of ex-ante deforestation decoupling assessment

The main driver of deforestation in Jurisdiction A is extensive cattle ranching, which has traditionally taken place throughout its territory. With the objective of reducing the pressure on forests, the government of the jurisdiction decided to establish a program to provide technical support and monetary incentives for intensifying this practice. Starting in 2015, the program ran for five years, with the following results:

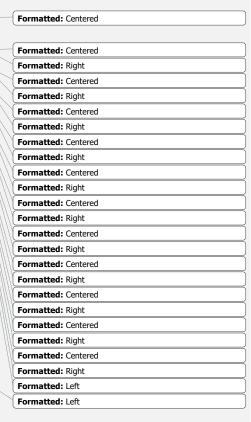
Deforestation intensity of cattle ranching in Jurisdiction A, 2010 – 2020

Year	Cattle production (heads)	Deforestation in Jurisdiction A (ha)	Deforestation intensity (ha/head)
2010	200,000	170,000	0.850
2011	220,000	190,000	0.864
2012	240,000	220,000	0.917
2013	290,000	300,000	1.034
2014	315,000	350,000	1.111
2015	325,000	300,000	0.923
2016	350,000	310,000	0.886
2017	375,000	320,000	0.853
2018	390,000	325,000	0.833
2019	410,000	330,000	0.805
2020	400,000	325,000	0.813





As can be seen in the table and figures above, the deforestation intensity (i.e., the number of hectares deforested per head of cattle raised) decreased since the start of the program, which means that the jurisdiction was able to produce the same economic benefit while reducing deforestation. On average, the deforestation intensity decreased from 0.955 ha/head in the period 2010-2014 to 0.852 ha/head from 2015 to 2020. Moreover, the program was able to lower its deforestation intensity for more than 5 years, so it would qualify as an eligible program while assessing this risk indicator.



Risk Indicator: Is the relevant legal and regulatory environment conducive to REDD+ objectives?

In order to determine if the relevant legal and regulatory environment is conducive to REDD+ objectives, all laws and regulations affecting the forest sector directly or indirectly in the ER Program jurisdiction shall be considered. Ex-ante, the analysis shall identify how the enforced legal framework in place at the time of the ER Program start promotes REDD+ objectives. The assessment shall consider all relevant laws and regulations with the aim of reflecting what their overall impact on REDD+ objectives is. Consequently, any potential provisions or contradictions between laws and regulations that may represent obstacles to their achievement shall also be considered. Additionally, evidence shall be presented showing that the laws and regulations considered have been, and continue to be, effectively enforced. The level of enforcement shall be assessed considering official data, academic analysis, NGO publications and other relevant sources. The ex-post analysis shall be an update of the ex-ante assessment, i.e., shall reflect the modifications made to the legal and regulatory environment and any variations in its enforcement since the previous risk assessment.

Risk scores shall be identified as:

- Low risk: The existing legal and regulatory framework undoubtedly promotes REDD+ (i.e., it
  does not include contradictions or gaps that may difficult the achievement of REDD+ objectives)
  and is effectively enforced.
- Medium risk: The existing legal and regulatory framework partially promotes REDD+ (i.e., there
  are contradictions or gaps that limit the achievement of REDD+ objectives, but it is mostly
  oriented towards promoting REDD+) OR the regulatory framework is partly enforced (i.e.,
  enforcement issues have been identified, but they do not seriously undermine the effectiveness
  of the regulatory framework).
- High risk: The existing legal and regulatory framework does not promote REDD+, OR it is generally not enforced, OR the information available does not allow to assess this indicator.

The final risk score for Risk factor C shall be the lowest (i.e., the highest risk) score of the two Risk Indicators above.

#### Risk factor D. Exposure and vulnerability to natural disturbances

Risk Indicator: Is the Accounting Area vulnerable to fire, storms, droughts, etc.?

When determining the vulnerability of the Accounting Area to natural disturbances, all the occurrences of all types of disturbances in the last 50 years shall be identified and their impact on forest carbon stocks or forest area estimated. Ideally, forest carbon stocks shall be used to estimate this risk indicator; the reduction of forest areas should only be used where data on forest carbon stocks are not available. Average carbon stock values may be used for these estimates. Risk shall be assessed separately for each

relevant type of disturbance, taking into account the average affected carbon stocks and return interval (or frequency) of disturbance events.

Risk scores shall be determined as:

- Low risk: Natural disturbances affecting forests in the Accounting Area have occurred every 50
  years or more OR have been more frequent but reduced forest carbon stocks or the forest area
  by 10% or less.
- Medium risk: Natural disturbances reducing forest carbon stocks or the forest area in the Accounting Area by more than 10% and less than 20% have occurred every 1 to less than 50 years.
- High risk: Natural disturbances reducing forest carbon stocks or the forest area in the
  Accounting Area by 20% or more have occurred every 1 to less than 25 years OR there is not
  information to carry out the assessment.

Risk Indicator: Are there capacities and experiences in effectively preventing natural disturbances or mitigating<sup>11</sup> their impacts?

The resulting risk scores (low, medium, or high) of the previous Risk Indicator may be lowered by considering the capacities and experiences in effectively preventing natural disturbances or mitigating their impacts for each disturbance type. Risk mitigation activities shall be described, including an explanation of how they reduce the specific natural disturbance risk. Additionally, information shall be provided showing how the impacts of such disturbances have lowered since the activities were implemented (for instance, information on the average hectares of forest burned per event before the activities started compared against the average hectares burned after their implementation). Information to support the assumption that the mitigation activities will be carried out throughout the crediting period may include government budgets, relevant cooperation agreements with donor countries or international bodies, etc.

Mitigation scores shall be determined as follows:

- Low risk: Activities proved to mitigate the identified natural disturbances have been successfully
  implemented for at least the last 10 years in the ER Program's jurisdiction, and the ER Program
  proponent can demonstrate that it has the capacities and funding necessary to continue to fully
  implement them in the crediting period.
- Medium risk: Activities proved to mitigate the identified natural disturbances have been successfully implemented for at least the last 5 years in the ER Program's jurisdiction, and the ER Program proponent can demonstrate that it has the capacities and funding necessary to continue to fully implement them in the crediting period.

<sup>&</sup>lt;sup>11</sup> Activities to mitigate natural disturbance may include education to reduce the risk of uncontrolled fires resulting from slash-and-burn agriculture; periodic fuel removal; establishment and maintenance of fire breaks and towers; deployment and maintenance of fire-fighting equipment (for fire risk); planting of diverse and resistant tree species (for risk of pests or disease); planting of frost, drought, flood, or wind-tolerant species (for extreme weather risk); and use of salinity-tolerant plant species (for salt-water intrusion risk).

 High risk: Activities proved to mitigate the identified natural disturbances have been successfully implemented for less than 5 years, AND/OR the ER Program proponent cannot demonstrate that it has the capacities and funding necessary to continue to fully implement them in the crediting period.

The final natural disturbance risk per type of disturbance shall be determined considering both the initial risk score and the risk mitigation score, according to the following table:

Table A1-1. Deduction of risk mitigation scores

Risk score	Mitigation score	Final score
	High	Low
High	Medium	Medium
	Low	High
	High	Low
Medium	Medium	Low
	Low	Medium
	High	Low
Low	Medium	Low
	Low	Low

The highest final risk score of the assessed disturbance types shall be deemed to represent the natural disturbance risk of the ER program. The assessment process for this risk factor is exemplified in Box 2 below.

#### Box 2. Example of natural disturbance risk assessment

ER Program A is located in an area where forest fires and pest outbreaks have been persistent in the last five decades. The government of the jurisdiction where the ER Program is located put in place a fire prevention program in 1990 that is still operating in 2023 and that has been associated with a reduction of the average carbon stocks affected by each fire event, based on available historical data (from an average 47.5 MtC per event in 1972-1984 to 35 MtC in 1992-2016, see table below). This program is anticipated to continue during the crediting period, as it is part of a long-term cooperation agreement with several countries in the region. In contrast, no specific actions have been taken by the government to address pest outbreaks. The analysis of historical information regarding the impacts of these natural disturbances on forest carbon stocks within the Accounting Area are summarized in the tables below:

Fire risk

Year	Type of natural disturbance	Total forest carbon stocks (tC)	Affected carbon stocks (tC)	Affected carbon stocks (%)	Return interval (years)
1972	Fire	350,000,000	48,000,000	14	,

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1984	Fire	296,000,000	47,000,000	16	12
1992	Fire	298,000,000	38,000,000	13	8
2016	Fire	260,000,000	32,000,000	12	24
Average				14	15

#### Pest outbreak risk

Year	Type of natural disturbance	Total forest carbon stocks (tC)	Affected carbon stocks (tC)	Affected carbon stocks (%)	Return interval (years)
1978	Pest	318,000,000	38,000,000	12	-
2009	Pest	257,000,000	40,000,000	16	31
2019	Pest	237,000,000	41,000,000	17	10
Average				15	21

As can be noted, on average, forest fires have impacted 14% of forest carbon stocks per event, and have happened with an average return interval of 15 years. Pest outbreaks have affected 15% of carbon stocks per event and have occurred every 21 years, both being average estimates. Consequently, both disturbances would qualify as having a "medium" risk score. In the case of forest fires, the score would be downgraded to "low" due to the existence of the fire prevention program, which qualifies as having a "high" risk mitigation score (i.e., it has been running successfully for more than ten years and is assumed to continue during the crediting period). Nevertheless, the overall risk of the ER Program regarding this risk factor is "medium" due to the reversal Reversal risk associated to pest outbreaks.

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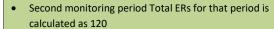
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#### **Annex II: Numerical examples**

The purpose of this Annex is to illustrate some of the equations in the Buffer Guidelines by providing numerical examples of how they shall be applied. These examples do not supersede the actual text in the guidelines.

### Section 7:

- First monitoring period Total ERs is calculated as 100
- Aggregate uncertainty of the estimate for Total ERs leads to a conservativeness factor of 15% for the first monitoring period
- So 15% \* 100 = 15 ERs go into the Uncertainty Buffer



- But the program has improved its MRV system in such a way that the aggregate uncertainty of the estimate for Total ERs leads to a lower conservativeness factor of 12% for the second monitoring period
- So 12% \* 120 = 14.4 ERs go in the Uncertainty Buffer for the second monitoring period

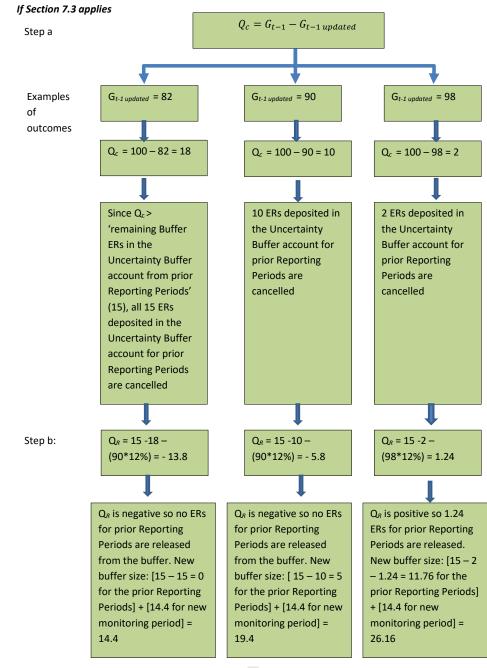
• The guidelines then require that the results of the first monitoring period get re-assessed

 The result is a lower estimate of Total ERs for the prior Reporting Periods

Section 7.3 applies

 The result is a higher estimate of Total ERs for the prior Reporting Periods

• Section 7.4 applies



#### If Section 7.4 applies Step a Examples of new $G_{t-1\,updated} = 110$ $G_{t-1\,updated} = 130$ quantity of Total ERs Recalculated Buffer: Recalculated Buffer: Revised quantities for allocations to 12% \* 110 = 13.2 12% \* 130 = 15.6 the Uncertainty Buffer Step b 13.2 < 15 (ERs 15.6 > 15 (ERs deposited in the deposited in the **Uncertainty Buffer Uncertainty Buffer** account for prior account for prior Reporting Periods) Reporting Periods) So not applicable So 0.6 needs to be added to the buffer Not applicable 13.2 < 15 (ERs Step c deposited in the **Uncertainty Buffer** account for prior Reporting Periods) Formatted: Left so 1.8 is released back In addition, 110 – 100 In addition 130 – 100 = 10 new ERs are = 30 new ERs are created created

## Section 9:

- First monitoring period, Total cumulative ERs available for purchase is 80
- Risk assessment of the program leads to a set-aside percentage of 20%
- Carbon Fund pays for 40 ERs out of the 80 ERs
- So 40 \* 20% = 8 ERs go into the <u>Pooled</u> Reversal Buffer

• Second monitoring period, a Reversal has occurred and the Total cumulative emissions ERs available for purchase over the periods is 70 → Reversal of 10

 $R_c = C/T_{t-1} \times (T_{t-1}-T_t)$ 

 $R_c = 40 / 80 \text{ X } (80 - 70) = 5$ 

## Section 10:

- First monitoring period, Total cumulative ERs available for purchase is 80
- Risk assessment of the program leads to a set-aside percentage of 20%
- Carbon Fund pays for 40 ERs out of the 80 ERs
- So 40 \* 20% = 8 ERs go into the <u>Pooled</u> Reversal Buffer
- Second monitoring period, revised Risk assessment leads to a revised set-aside percentage of 15%

$$Q_r = (R_{t-1} - R_t) \times N_{t-1}$$

Q<sub>r</sub> = (20% - 15%) \* 40 = 2

#### **Document history**

Version	Date		Notes •	Formatted: Centered
/ersion 4.2	June 2024	•	Changes were made to merge the Reversal Buffer	Tornatton contoccu
76131011 4.2	Julie 2024	<u> </u>	and Pooled Reversal Buffer to allow for total pooling.	
			Modifications were introduced to the equation used	
		<u> </u>	to determine the amount of Pooled Reversal Buffer	
			ERs that should be cancelled in case of a reversal, so	
			as to include ERs used to replenish such buffer when	
			determining the maximum size of a reversal.	
		•	Changes were made to reflect the fact that	
			Uncertainty Buffer ERs do not contribute to the	
			Pooled Reversal Buffer, and to require this	
			contribution when they are released due to	
			improved ER estimations.	
		•	Changes were included to clarify that the	
			<u>Uncertainty Buffer and any available Excess ERs shall</u>	
			be cancelled in case of a reversal before cancelling	
			Pooled Reversal Buffer ERs beyond the contribution	
			of the affected ER Program to the latter.	
		•	Requirements were added to disallow the release of	
			Uncertainty Buffer ERs in cases where the ER	
			Program has not yet fully replenished the Pooled	
			Reversal Buffer after a reversal.	
		•	Requirements were added requiring ER Programs	
			that have not completely replenished the Pooled	
			Reversal Buffer at the end of the Crediting Period to	
			cancel any remaining Excess ERs held by such	
			Programs up to the amount required to compensate	
			their Pooled Reversal Buffer debit.	
			Requirements were introduced establishing that	
			Uncertainty Buffer ERs shall only be transferred to an	
			equivalent buffer account at the end of the Crediting	
			Period if the ER Program has completely replenished	
			any Pooled Reversal Buffer debits.	
			References to ERPAs have been removed.	
ersion 4.1	January 2024	•	The equation in Section 10.6 applied to estimate the	Formatted: Centered
E131011 4.1	January 2024	•	amount of buffer ERs to be cancelled as a result of a	Politiatted: Centered
			reversal has been modified to reflect that all Total	
			ERs may be subject to reversals and to establish a	
			reversal liability limit.	
		•	Text was added in Sections 10.10 and 10.11 to	
			require ER Programs having suffered a reversal to	
			replenish any Reversal Buffer and Pooled Reversal	
			Buffer ERs they may have cancelled as a result of that	

A requirement was added in Section 10.10 through which an ER Program affected by a reversal shall not

reversal.

		be to transfer any Excess ERs held in its account
		before the reversal until it has replenished the
		Reversal Buffer and the Pooled Reversal Buffer in
		accordance with the requirements set out in such
		section.
		Section 10.4 was amended Amendments were
		introduced to reflect that not only transferred ERs
		may suffer reversals.
Version 4	April 2023	Annex I was included to further clarify the use of the Formatted: Centered
		risk factors to assess reversal risks
		Section 8 was modified to provide the opportunity to
		recalculate the uncertainty Buffer ERs at the end of
		the Term of the ERPA
Version 3.1	May 2022	Minor clarifications regarding the calculation of
		uncertainty buffer ERs.
Version 3	March 2022	Section 13 has been added to provide guidance on Formatted: Centered
		the procedures, and governance arrangements
		necessary to ensure monitoring for and
		compensation of material reversals until the end of
		the CORSIA's implementation period (2037). This
		section is applicable to FCPF Programs that wish to
		generate CORSIA Eligible Emissions.
Version 2	April 2020	Revised version adopted through Resolution Formatted: Centered
		CFM/21/2020/02 of 21st Carbon Fund Meeting. Changes Formatted: Left
		made:
		Section 12 of the Buffer Guidelines was revised by
		requiring the Post-ERPA Reversal Management
		Mechanism to comply with a set of conditions.
		The amount of ERs to be set aside in the Reversal
		Buffer and Pooled Reversal Buffer accounts is based
		on the Total ERs (minus the ERs set aside in the
		Uncertainty Buffer account) and not only on the
		Contract ERs and Additional ERs.
		The term 'Trustee' was replaced by 'World Bank'
		where applicable.
		The terms 'ERPA start date' and 'ERPA term' were
		replaced with the terms 'Crediting Period Start Date'
		and 'Crediting Period', where appropriate.
		Provisions in line with Sections 12.01 (No Reversal of
		ERs), 13.01 (Notice of Force Majeure Event) and
		13.02 (Effect of Force Majeure Event) of the ERPA
		General Conditions were added.
		The glossary of terms from the Buffer Guidelines
		was removed, and such terms were moved to a
		separate general reference document "FCPF
		Glossary of Terms.

		The conditions on the use of the Pooled Reversal
		Buffer ERs contained in Section 9.6 of the Buffer
		Guidelines, were removed.
Version 1	December 2015	Initial version approved by CE Participants

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