

# Enclosure 3: Emissions Quantification Assertion

Reference Values Obtained from ODS Protocol for CFC-12, CFC-11, CFC-113, CFC-114, CFC-115

		CFC-12	CFC-11	CFC-13	CFC-113	CFC-114	CFC-115	
CFC-12 10-Year Cumulative Emissions Rate (%/10 Years)	ER	95%	89%	61%	89%	78%	61%	
Refrigerant Substitute Emissions Factor (tCO2e/tODS)	SE	812	201	7569	219	660	1868	
Global Warming Potential (tCO2e/tODS)	GWP	10239	4663	13893	5824	8592	7665	
Default Emission Factor for Transportation and Destruction of ODS (tCO2e/tODS)	EF	7.5					Sec. 5.2.3	

	Refrigerant Type	Measured Values		Gross Quantity of Refrigerant Destroyed (kg)	Moisture Reduction	High Boiling Residue Reduction	Total Eligible Refrigerant Destroyed (kg)	Quantity of Refrigerant Destroyed (metric tonnes)	GHG Emissions from Substitute Refrigerants	Quantity of ODS Transported to Destruction Facility	Transportation and Destruction Default Emissions Factor (tCO2e)	Total Project Emissions (tCO2e)	Total Project Baseline Emissions (tCO2e)	Total GHG Emissions Reductions (tCO2e)
		Mass of ODS in COD in kg	Concentration of ODS in Tranche											
		m	c	$Q_g$	mr	hbr	$Q_g$	$Q_{ref}$	$Sub_{ref}$	$Q_d$	Def	PE	$BE_{ref}$	ER
				$Q_g = m \times c$			$Q_g = Q_g - (Q_g \times mr)$ $(Q_g \times hbr)$	$Q_{ref} = Q_g \times .45359/1000$	$Sub_{ref} = Q_{ref} \times SE$		$Def = Q_d \times EF$	$PE = Sub_{ref} + Def$	$BE_{ref} = Q_{ref} \times ER \times GWP$	$ER = BE_{ref} - PE$
BNFU6221074	CFC-12		95.90%	17712.73			17703.80	17.70	14375.49				172206	
BNFU6221074	CFC-11		0.00%	0.00			0.00	0.00	0.00				0	
BNFU6221074	CFC-13	18470.0	0.00%	0.00	0.000004	0.00050	0.00	0.00	0.00	18.47000	138.53	14514	0	157691.76
BNFU6221074	CFC-113		0.00%	0.00			0.00	0.00	0.00				0	
BNFU6221074	CFC-114		0.00%	0.00			0.00	0.00	0.00				0	
BNFU6221074	CFC-115		0.00%	0.00			0.00	0.00	0.00				0	