

**EXCISE**

**EXTERNAL**

**COMPLETION MANUAL**

**DA 180 AND ANNEXURES**

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## 1 SCOPE

- a) The manual will assist business entities that generate carbon emissions liable to Carbon Tax in South Africa (SA).
- b) The business entity will find herein guidance to each field requirement as it appears on the DA 180 and its relevant annexure(s).

## 2 GENERAL NOTES: CARBON TAX ACCOUNT ADMINISTRATION

- a) The business entity must be registered with the SARS as an eFiling client in terms of the Customs and Excise Act, No. 91 of 1964 (the Act) before it can submit the yearly declaration electronically to the South African Revenue Service (SARS).
- b) The account information must be submitted via SARS eFiling on the EXD 180 return. The completed and signed DA 180 account with its relevant annexure(s) in hard copy and its supporting documents must be kept for record purposes for a five (5) year period from the date the document was signed and dated by the business entity.[Refer to rule 119A.R101A(10)(d) (a - g)].
- c) The 'Gross Levy Payable', 'Nett Levy Payable', 'Underpaid / Overpaid' and 'Total Amount Payable' respectively, must all be indicated in Rand (R) and Cent (C) values on the hard copy as well as on the EXD 180.
- d) The DA 180 and its annexures for every period must be safely kept in a fireproof safe.
- e) A single DA 180 with its relevant annexure(s) must be completed as a consolidation of all the emission facilities licensed under the name of the business entity. This means the emissions equivalent of all the emission facilities must be totalled on the DA 180 and its relevant annexure(s) according to the corresponding IPCC codes.

### 2.1 Completion of the DA 180 Environmental levy account for Carbon Tax and its annexures - DA 180.01A.1, DA 180.01A.2, DA 180.01B.1, DA 180.01B.2, DA 180.01C and DA 180.02

#### 2.1.1 Explanation of the fields on the DA 180 – Carbon Tax Account

Section A. Licensee particulars:	
<b>Warehouse number</b>	The relevant warehouse number allocated to the licensed business entity (e.g. PEZVM 01927)
<b>Excise Client Code</b>	The Excise code issued to the licensee (e.g. 22684003)
<b>Licensee</b>	The official business entity name of the licensee as registered with the Registrar of Companies
<b>Company name</b>	The official company name of the licensee as registered with the Registrar of Companies
<b>Physical Address</b>	The street address of the licensed business entity
<b>Postal code</b>	The postal area code of the licensed business entity
<b>Accounting Period</b>	The twelve (12) month period in which the carbon emissions occurred at the emission facilities licensed under the business entity. The twelve (12) month period starts on 1 January and ends on 31 December of each calendar year.

Section B. Declaration of Emissions Equivalent	
<b>Declaration of Emission Equivalent</b>	<p>Indicate the relevant methodology of declaration by marking the relevant tick box for 'Section 4(1) and / or 'Section 4(2) of the Carbon Tax Act, 2019' with an X.</p> <p>Section 4(1) of the Carbon Tax Act, 2019, relates to an emissions determination methodology approved by the Department of Environment, Forestry and Fisheries (DEFF) for Tier 3 reporting in terms of the National Greenhouse Gas Emission Reporting Regulations under the National</p>

Section B. Declaration of Emissions Equivalent	
	<p>Environmental Management: Air Quality Act, 2004. If the 'Section 4(1)' methodology is used for the declaration, then the DA 180 and DA 180.02 annexure must be completed.</p> <p>Section 4(2) of the Carbon Tax Act, 2019, relates to an emissions determination methodology for Tier 1 or Tier 2 reporting in terms of the National Greenhouse Gas Emission Reporting Regulations under the National Environmental Management: Air Quality Act, 2004. If the 'Section 4(2)' methodology is used for the declaration, then the DA 180 and relevant DA 180.01 and DA 180.02 annexures must be completed.</p>
<b>B.1 If Section 4(1) is applicable</b>	If section 4(1) is ticked, insert the DEFF declared figures in the relevant fields for 'Fuel Combustion' emissions, 'Fugitive' emissions and / or Industrial process emissions according to the corresponding IPCC codes.
<b>B.2 If Section 4(2) is applicable</b>	If section 4(2) is ticked, indicate the 'Types of Emissions' by marking the appropriate tick box(es) with an X, to obtain the relevant DA 180.01 annexure(s) and declare the emissions in the relevant fields for 'Fuel Combustion' (Stationary), 'Fuel Combustion' (Non-Stationary), 'Fugitive' (Oil & Natural Gas), 'Fugitive' (Coal Mining & Handling), and / or Industrial Process according to the corresponding IPCC codes.
<b>B.3 Calculation of Net Emissions Equivalent</b>	$\{[(E - S) \times (1 - C)] - [D \times (1 - M)]\} + \{P \times (1 - J)\} + \{F \times (1 - K)\} = \text{Net Emission Equivalent (X)} -$ <p>“X” represents the amount to be determined that must not be less than zero.</p> <p>“E” represents the number in respect of the fuel combustion related greenhouse gas emissions of the taxpayer in respect of that tax period expressed as a carbon dioxide equivalent determined in terms of section 4(2)(a).</p> <p>“S” represents the number in respect of greenhouse gas emissions, expressed in terms of carbon dioxide equivalent that were sequestered in respect of that tax period as verified and certified by the DEFF.</p> <p>“C” represents a number equal to the sum of the percentages of allowances determined under sections 7, 10, 11, 12, and 13 in respect of that tax period subject to section 14.</p> <p>“D” represents the number in respect of the petrol and diesel related greenhouse gas emissions of that taxpayer in respect of that tax period expressed as a carbon dioxide equivalent, determined in terms of section 4(2)(a).</p> <p>“M” represents a number equal to the sum of the percentages of the allowances determined under sections 7, 12 and 13 in respect of that tax period, subject to section 14.</p> <p>“P” represents the number in respect of the industrial process related greenhouse gas emissions of the taxpayer in respect of that tax period expressed as a carbon dioxide equivalent determined in terms of section 4(2)(c).</p> <p>“J” represents a number equal to the sum of the percentages of the allowances determined under sections 7, 8, 10, 11, 12 and 13 in respect of that tax period, subject to section 14.</p> <p>“F” represents the number in respect of the fugitive greenhouse gas</p>

**Section B. Declaration of Emissions Equivalent**

	<p>emissions of the taxpayer in respect of that tax period expressed as a carbon dioxide equivalent determined in terms of section 4(2)(b).</p> <p>“K” represents the sum of the percentages of the allowances determined in terms of sections 7, 9, 10, 11, 12 and 13 in respect of that tax period, subject to section 14.</p> <p>Provided that where the number in respect of the determination of the expression “(E-S)” in the formula is less than zero, that number must be deemed to be zero.</p>
<p><b>Note:</b> For the purposes of this section “sequesterate” means the process of storing a greenhouse gas or increasing the carbon content of a carbon reservoir other than the atmosphere.</p>	

**Section C. Determination of Environmental Levy payable**

<b>C.1 Calculation of Gross Levy Payable</b>	Total NET Emission Equivalent multiplied by the rate of environmental levy to determine the Gross Levy Payable.
<b>C.2 Calculation of amount of tax payable in respect of the generation of electricity from fossil fuels</b>	<p>If an amount of tax payable in respect of the generation of electricity from fossil fuels in respect of a tax period must be calculated, please use the formula <math>X = A - B - C</math> in which formula –</p> <p>“X” represents the amount to be determined that must not be less than zero.</p> <p>“A” represents the amount of the Gross Levy Payable in respect of a tax period.</p> <p>“B” represents the renewable energy premium in respect of a tax period, from the commencement of the tax period until 31 December 2022, constituted by an amount expressed in Rand determined by the Minister of Finance by Notice in the <i>Gazette</i>.</p> <p>“C” represents the total amount of the environmental levy in respect of electricity generated in the Republic contemplated in Section B of Part 3 of Schedule 1 to the Customs and Excise Act, 1964 (Act No. 91 of 1964), and paid by the company during the tax period, until 31 December 2022.</p>

**C.3 Calculation of Total Amount Payable**

<b>Net levy payable</b>	Gross Levy Payable adjusted in the case of the generation of electricity from fossil fuels.
<b>Less Overpaid on previous period</b>	If an amount was overpaid on a previous account, the amount must be deducted from the ‘Total Amount Payable’.
<b>Plus Underpaid on previous period</b>	If an amount was underpaid on a previous account, the amount must be added to the ‘Total Amount Payable’.
<p><b>Note:</b> An under-payment and / or under-declaration must be corrected as soon as it is detected. You should not wait for the next account submission. This is necessary to limit the payable interest on the outstanding amount due. Ensure you contact the relevant SARS – Excise branch office for guidance and assistance herein. The same applies to an over-declaration or over-payment.</p>	

**Declaration Box**

The licensee or his duly appointed, by proxy, public officer must complete their personal particulars and signature with date of completion of the DA 180 account.

## 2.1.2 Explanation of the fields on the DA 180.01A.1 – Fuel Combustion (Stationary)

Section A. Licensee particulars:	
<b>Warehouse number</b>	The relevant warehouse number allocated to the licensed business entity (e.g. PEZVM 01927)
<b>Excise Client Code</b>	The Excise code issued to the licensee (e.g. 22684003)
<b>Licensee</b>	The official business entity name of the licensee as registered with the Registrar of Companies
<b>Company name</b>	The official company name of the licensee as registered with the Registrar of Companies
<b>Physical Address</b>	The street address of the licensed business entity
<b>Postal code</b>	The postal area code of the licensed business entity
<b>Accounting Period</b>	The twelve (12) month period in which the carbon emissions occurred at the emission facilities licensed under the business entity. The twelve (12) month period starts on 1 January and ends on 31 December of each calendar year.

Section B. Carbon dioxide equivalent declaration [(section 4(2)] of Carbon Tax Act, 2019 methodology:	
<b>B.1 – Emissions factor</b>	<p>The greenhouse gas (GHG) emission factor, in carbon dioxide equivalent per tonne that must be determined in accordance with the formula: <math>X = \{(C \times 1) + (M \times 23) + (N \times 296)\} \times D / Y = X</math> in which formula –</p> <p>“X” represents the number to be determined.</p> <p>“C” represents the carbon dioxide emissions of a fuel type determined by matching the fuel type listed in the column “fuel type” in Table 1 of Schedule 1 with the number in the corresponding line of the column “CO<sub>2</sub> (KGCO<sub>2</sub> / TJ)” of that table.</p> <p>“M” represents the methane emissions of a fuel type determined by matching the fuel type listed in the column “fuel type” in Table 1 of Schedule 1 with the number in the corresponding line of the column “CH<sub>4</sub> (KGCH<sub>4</sub> / TJ)” of that table.</p> <p>“N” represents the Nitrous Oxide emissions of a fuel type determined by matching the fuel type listed in the column “fuel type” in Table 1 of Schedule 1 with the number in the corresponding line of the column “N<sub>2</sub>O (KGN<sub>2</sub>O / TJ)” of that table.</p> <p>“Y” represents the number 1000.</p> <p>“D” represents the default net calorific value (Terra Joule per tonne) of a fuel type determined by matching the fuel type listed in the column listed in the column “fuel type” in Table 1 of Schedule 1 with the number in the corresponding line of the column “DEFAULT NETT CALORIFIC VALUE (TJ / TONNE)” of that table.</p> <p>Use the prescribed Schedule for Carbon Tax Fuel Combustion Emission factors – Stationary to calculate the Emission factor in Carbon Dioxide equivalent per tonne.</p>

**Section B. Carbon dioxide equivalent declaration [(section 4(2)] of Carbon Tax Act, 2019 methodology:**

<b>B.2 – Emissions equivalent</b>	<p>A number constituted by the sum of the respective numbers determined for each type of fuel in respect of which a GHG is emitted in respect of that tax period which respective numbers must be determined in accordance with the formula: <math>E = (A \times B)</math> in which formula –</p> <p><b>“E”</b> represents the number to be determined.</p> <p><b>“A”</b> represents the mass of any one type of the fuel expressed in tonne that is the source of the greenhouse gas emission, other than any fuel utilised for the purpose of international aviation and maritime transport.</p> <p><b>“B”</b> represents the GHG emission factor in carbon dioxide equivalent per tonne that must be determined in accordance with the formula.</p> <p>Use the Total of A (mass in tonne) multiplied by total of B (Emission factor) to calculate the Emission Equivalent.</p> <p>For the conversion of volume to mass, use the appropriate density conversion factor provided in DEFF’s Technical Guidelines for Monitoring, Reporting and Verification of Greenhouse Gas Emissions by Industry available at <a href="https://www.environment.gov.za/legislation/guidelines">https://www.environment.gov.za/legislation/guidelines</a></p>
<b>B.3 – Table of emissions equivalent</b>	Completion of the table of emissions equivalent utilising the prescribed Schedule 1 of the Carbon Tax Act, 2019

**Section C**

The Emissions Equivalent figures as reflected in this DA 180.01A.1 represented by “E” as above must be carried forward to the DA 180 (front-page) section B.2 to be inserted in the ‘Fuel Combustion’ (Stationary) fields according to the corresponding IPCC codes.

**2.1.3 Explanation of the fields on the DA 180.01A.2 – Fuel Combustion (Non-stationary)****Section A. Licensee particulars:**

<b>Warehouse number</b>	The relevant warehouse number allocated to the licensed business entity (e.g. PEZVM 01927)
<b>Excise Client Code</b>	The Excise code issued to the licensee (e.g. 22684003)
<b>Licensee</b>	The official business entity name of the licensee as registered with the Registrar of Companies
<b>Company name</b>	The official company name of the licensee as registered with the Registrar of Companies
<b>Physical Address</b>	The street address of the licensed business entity
<b>Postal code</b>	The postal area code of the licensed business entity
<b>Accounting Period</b>	The twelve (12) month period in which the carbon emissions occurred at the emission facilities licensed under the business entity. The twelve (12) month period starts on 1 January and ends on 31 December of each calendar year.

**Section B. Carbon dioxide equivalent declaration (section 4(2) of Carbon Tax Act,2019 methodology :**

<b>B.1 – Emissions factor</b>	<p>The GHG emission factor, in carbon dioxide equivalent per tonne that must be determined in accordance with the formula: <math>X = \{(C \times 1) + (M \times 23) + (N \times 296)\} \times D / Y = X</math> in which formula –</p> <p><b>“X”</b> represents the number to be determined.</p> <p><b>“C”</b> represents the carbon dioxide emissions of a fuel type determined by matching the fuel type listed in the column “fuel type” in Table 1 of</p>
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**Section B. Carbon dioxide equivalent declaration (section 4(2) of Carbon Tax Act,2019 methodology :**

	<p>Schedule 1 with the number in the corresponding line of the column “CO<sub>2</sub> (KGCO<sub>2</sub>/ TJ)” of that table.</p> <p>“<b>M</b>” represents the methane emissions of a fuel type determined by matching the fuel type listed in the column “fuel type” in Table 1 of Schedule 1 with the number in the corresponding line of the column “CH<sub>4</sub> (KGCH<sub>4</sub>/ TJ)” of that table.</p> <p>“<b>N</b>” represents the Nitrous Oxide emissions of a fuel type determined by matching the fuel type listed in the column “fuel type” in Table 1 of Schedule 1 with the number in the corresponding line of the column “N<sub>2</sub>O (KGN<sub>2</sub>O / TJ)” of that table.</p> <p>“<b>Y</b>” represents the number 1000.</p> <p>“<b>D</b>” represents the default net calorific value (Terra Joule per tonne) of a fuel type determined by matching the fuel type listed in the column listed in the column “fuel type” in Table 1 of Schedule 1 with the number in the corresponding line of the column “DEFAULT NETT CALORIFIC VALUE (TJ / TONNE)” of that table.</p> <p>Use the prescribed Schedule for Carbon Tax Fuel Combustion Emission factors – Non-Stationary to calculate the Emission factor in Carbon Dioxide equivalent per tonne.</p>
<b>B.2 – Emissions equivalent</b>	<p>A number constituted by the sum of the respective numbers determined for each type of fuel in respect of which a GHG is emitted in respect of that tax period which respective numbers must be determined in accordance with the formula: <math>E = (A \times B)</math> in which formula –</p> <p>“<b>E</b>” represents the number to be determined.</p> <p>“<b>A</b>” represents the mass of any one type of the fuel expressed in tonne that is the source of the GHG emission, other than any fuel utilised for the purpose of international aviation and maritime transport.</p> <p>“<b>B</b>” represents the GHG emission factor in carbon dioxide equivalent per tonne that must be determined in accordance with the formula.</p> <p>Use the Total of A (mass in tonne) multiplied by the total of B (Emission factor) to calculate the Emission Equivalent.</p> <p>For the conversion of volume to mass, use the appropriate density conversion factor provided in DEFF’s Technical Guidelines for Monitoring, Reporting and Verification of Greenhouse Gas Emissions by Industry available at <a href="https://www.environment.gov.za/legislation/guidelines">https://www.environment.gov.za/legislation/guidelines</a></p>
<b>B.3 – Completion of the table of emissions equivalent utilising the prescribed Schedule 1 of the Carbon Tax Act, 2019.</b>	

**Section C**

The Emissions Equivalent figures as reflected in this DA 180.01A.2 represented by “E” as above must be carried forward to the DA 180 (front-page) section B.2 to be inserted in the ‘Fuel Combustion’ (Non-Stationary) fields according to the corresponding IPCC codes.



## 2.1.4 Explanation of the fields on the DA 180.01B.1 – Fugitive (Oil and Natural Gas)

Section A. Licensee particulars:	
<b>Warehouse number</b>	The relevant warehouse number allocated to the licensed business entity (e.g. PEZVM 01927)
<b>Excise Client Code</b>	The Excise code issued to the licensee (e.g. 22684003)
<b>Licensee</b>	The official business entity name of the licensee as registered with the Registrar of Companies
<b>Company name</b>	The official company name of the licensee as registered with the Registrar of Companies
<b>Physical Address</b>	The street address of the licensed business entity
<b>Postal code</b>	The postal area code of the licensed business entity
<b>Accounting Period</b>	The twelve (12) month period in which the carbon emissions occurred at the emission facilities licensed under the business entity. The twelve (12) month period starts on 1 January and ends on 31 December of each calendar year.

Section B. Carbon dioxide equivalent declaration 4(2) of Carbon Tax Act, 2019 methodology	
<b>B.1 – Emissions factor</b>	<p>The GHG emission factor, in carbon dioxide equivalent per tonne that must be determined in accordance with the formula: <math>\{(C \times 1) + (M \times 23) + (N \times 296)\} \times Y = X</math> in which formula –</p> <p>“X” represents the number to be determined.</p> <p>“C” represents the carbon dioxide emissions of a fuel type determined by matching the fuel type listed in the column “fuel type” in Table 2 of Schedule 1 with the number in the corresponding line of the column “CO<sub>2</sub>” of that table.</p> <p>“M” represents the methane emissions of a fuel type determined by matching the fuel type list in the column “fuel type” in Table 2 of Schedule 1 with the number in the corresponding line of the column “CH<sub>4</sub>” of that table.</p> <p>“N” represents the Nitrous Oxide emissions of a fuel type determined by matching the fuel type list in the column “fuel type” in Table 1 of Schedule 1 with the number in the corresponding line of the column “N<sub>2</sub>O” of that table.</p> <p>“Y” represents the number 1000.</p> <p>Use the prescribed Schedule for Carbon Tax Fugitive Emission Factors to calculate the Emission factor in Carbon Dioxide equivalent per tonne (X)</p>
<b>B.2 – Emissions equivalent</b>	<p>A number constituted by the sum of respective numbers determined for each type of commodity, fuel or technology in respect of which the GHG is emitted in respect of a tax period which respective numbers must be determined in accordance with the formula: <math>F = (N \times Q)</math> in which formula –</p> <p>“F” represents the number to be determined.</p> <p>“N” represents the mass expressed in tonne in the case of solid fuels or volume of each type of fuel expressed in cubic metres in the case of fuels other than solid fuels, in respect of the greenhouse gas emissions.</p> <p>“Q” represents the GHG emission factor in carbon dioxide equivalent per tonne or cubic metres that must be determined in accordance with the formula.</p> <p>Use the Total of N (mass in tonne) multiplied by total of X (Emission factor) to calculate the Emission Equivalent F.</p>

**Note:** For the conversion of volume to mass, use the appropriate density conversion factor provided in

**Section B. Carbon dioxide equivalent declaration 4(2) of Carbon Tax Act, 2019 methodology**

DEFF's Technical Guidelines for Monitoring, Reporting and Verification of GHG Emissions by Industry available at <https://www.environment.gov.za/legislation/guidelines>.

**B.3** – Completion of the table of emissions equivalent utilising the prescribed Schedule 1 of the Carbon Tax Act, 2019.

**Section C**

The Emissions Equivalent figures as reflected in this DA 180.01B.1 represented by “F” as above must be carried forward to the DA 180 (front-page) section B.2 to be inserted in the ‘Fugitive’ (Oil and Natural Gas) fields according to the corresponding IPCC codes.

**2.1.5 Explanation of the fields on the DA 180.01B.2 - Fugitive (Coal Mining and Handling)****Section A. Licensee particulars:**

<b>Warehouse number</b>	The relevant warehouse number allocated to the licensed business entity (e.g. PEZVM 01927)
<b>Excise Client Code</b>	The Excise code issued to the licensee (e.g. 22684003)
<b>Licensee</b>	The official business entity name of the licensee as registered with the Registrar of Companies
<b>Company name</b>	The official company name of the licensee as registered with the Registrar of Companies
<b>Physical Address</b>	The street address of the licensed business entity
<b>Postal code</b>	The postal area code of the licensed business entity
<b>Accounting Period</b>	The twelve (12) month period in which the carbon emissions occurred at the emission facilities licensed under the business entity. The twelve (12) month period starts on 1 January and ends on 31 December of each calendar year.

**Section B. Carbon dioxide equivalent declaration (section 4(2) of Carbon Tax Act, 2019, methodology**

<b>B.1. – Emissions factor</b>	<p>The greenhouse gas emission factor, in carbon dioxide equivalent per tonne that must be determined in accordance with the formula: <math>\{(M \times D \times 23) \times Y = X</math> in which formula –</p> <p><b>X</b>” represents the number to be determined.</p> <p><b>“M</b>” represents the methane emissions of a fuel type determined by matching the fuel type list in the column “fuel type” in Table 2 of Schedule 1 with the number in the corresponding line of the column “CH<sub>4</sub>” of that table.</p> <p><b>“D</b>” represents the density factor for coal mining and handling methane emissions.</p> <p><b>“Y</b>” represents the number 1000.</p> <p>Use the prescribed Schedule for Carbon Tax Fugitive Emission Factors to calculate the Emission factor in Carbon Dioxide equivalent per tonne (X)</p>
<b>B.2 – Emissions equivalent</b>	<p>A number constituted by the sum of respective numbers determined for each type of commodity, fuel or technology in respect of which the GHG is emitted in respect of a tax period which respective numbers must be determined in accordance with the formula: <math>F = (N \times Q)</math> in which formula:</p> <p><b>“F</b>” represents the number to be determined.</p> <p><b>“N</b>” represents the mass expressed in tonne in the case of solid fuels or volume of each type of fuel expressed in cubic metres in the case of fuels other than solid fuels, in respect of the GHG emissions.</p>

**Section B. Carbon dioxide equivalent declaration (section 4(2) of Carbon Tax Act, 2019, methodology**

	<p>“Q” represents the GHG emission factor in carbon dioxide equivalent per tonne or cubic metres that must be determined in accordance with the formula.</p> <p>Use the Total of N (mass in tonne) multiplied by total of X (Emission factor) to calculate the Emission Equivalent F.</p>
<p><b>Note:</b> For the conversion of volume to mass, use the appropriate density conversion factor provided in DEFF’s Technical Guidelines for Monitoring, Reporting and Verification of GHG Emissions by Industry available at <a href="https://www.environment.gov.za/legislation/guidelines">https://www.environment.gov.za/legislation/guidelines</a>.</p>	
<p><b>B.3 –</b> Completion of the table of emissions equivalent utilising the prescribed Schedule 1 of the Carbon Tax Act, 2019.</p>	

**Section C**

The Emissions Equivalent figures as reflected in this DA180.01B.2 represented by “F” as above must be carried forward to the DA 180 (front-page) section B.2 to be inserted in the ‘Fugitive’ (Coal Mining and Handling) fields according to the corresponding IPCC codes.

**2.1.6 Explanation of the fields on the DA 180.01C – Industrial Process**

<b>Section A. Licensee particulars:</b>	
<b>Warehouse number</b>	The relevant warehouse number allocated to the licensed business entity (e.g. PEZVM 01927)
<b>Excise Client Code</b>	The Excise code issued to the licensee (e.g. 22684003)
<b>Licensee</b>	The official business entity name of the licensee as registered with the Registrar of Companies
<b>Company name</b>	The official company name of the licensee as registered with the Registrar of Companies
<b>Physical Address</b>	The street address of the licensed business entity
<b>Postal code</b>	The postal area code of the licensed business entity
<b>Accounting Period</b>	The twelve (12) month period in which the carbon emissions occurred at the emission facilities licensed under the business entity. The twelve (12) month period starts on 1 January and ends on 31 December of each calendar year.

**Section B. Carbon dioxide equivalent declaration (section 4(2) of Carbon Tax Act, 2019, methodology**

<b>B.1 – Emissions factor</b>	<p>The greenhouse gas emission factor, in carbon dioxide equivalent per tonne that must be determined in accordance with the formula: <math>\{(C \times 1) + (M \times 23) + (N \times 296) + (H \times 11\,900) + (T \times 5\,700) + (S \times 22\,200)\} = X</math> in which formula –</p> <p>“C” represents the carbon dioxide emissions of a raw material or product determined by matching the fuel type listed in the column “SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT” in Table 3 of Schedule 1 with the number in the corresponding line of the column “<b>tonne CO<sub>2</sub> / tonne product</b>” of that table.</p> <p>“M” represents the methane emissions of a raw material or product determined by matching the fuel type listed in the column “SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT” in Table 3 of Schedule 1 with the number in the corresponding line of the column “<b>tonne CH<sub>4</sub> / tonne product</b>” of that table.</p> <p>“N” represents the Nitrous Oxide emissions of a raw material or product determined by matching the fuel type listed in the column “SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT” in Table 3 of</p>
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**Section B. Carbon dioxide equivalent declaration (section 4(2) of Carbon Tax Act, 2019, methodology**

	<p>Schedule 1 with the number in the corresponding line of the column “<b>tonne N<sub>2</sub>O / tonne product</b>” of that table.</p> <p>“<b>H</b>” represents the Hexafluoroethane (C<sub>2</sub>F<sub>6</sub>) emissions of a raw material or product determined by matching the fuel type listed in the column “SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT” in Table 3 of Schedule 1 with the number in the corresponding line of the column “<b>tonne C<sub>2</sub>F<sub>6</sub> / tonne product</b>” of that table.</p> <p>“<b>T</b>” represents the carbon tetrafluoride (CF<sub>4</sub>) emissions of a raw material or product determined by matching the fuel type listed in the column “SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT” in Table 3 of Schedule 1 with the number in the corresponding line of the column “<b>tonne CF<sub>4</sub> / tonne product</b>” of that table.</p> <p>“<b>S</b>” represents the Sulphur hexafluoride (SF<sub>6</sub>) emissions of a raw material or product determined by matching the fuel type listed in the column “SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT” in Table 3 of Schedule 1 with the number in the corresponding line of the column “<b>tonne SF<sub>6</sub> / tonne product</b>” of that table.</p> <p>Use the prescribed Schedule for Carbon Tax Industrial Process Factors to calculate the Emission factor in Carbon Dioxide equivalent per tonne (X)</p>
<b>B.2 Emissions equivalent</b>	<p>In respect of a tax period that is a number constituted by the sum of the respective numbers determined for each type of commodity, fuel or technology in respect of which the GHG is emitted in respect of that tax period which respective numbers must be determined in accordance with the formula: <math>(G \times H) = P</math> in which formula –</p> <p>“<b>P</b>” represents the amount to be determined that must not be less than zero.</p> <p>“<b>G</b>” represents the mass of each raw material used or product produced expressed in tonne in respect of which greenhouse gas is emitted in respect of that tax period.</p> <p>“<b>H</b>” represents the GHG emission factor in carbon dioxide emissions equivalent per tonne for each raw material used or product produced that must be determined in accordance with the formula.</p> <p>Use the Total of G (mass in tonne) multiplied by total of X (Emission factor) to calculate the Emissions Equivalent</p>
<p><b>Note:</b> For the conversion of volume to mass, use the appropriate density conversion factor provided in the DEFF’s Technical Guidelines for Monitoring, Reporting and Verification of GHG Emissions by Industry available at <a href="https://www.environment.gov.za/legislation/guidelines">https://www.environment.gov.za/legislation/guidelines</a></p>	
<p><b>B.3</b> - Completion of the table of emissions equivalent utilising the prescribed Schedule 1 of the Carbon Tax Act, 2019.</p>	

**Section C**

The Emissions Equivalent figures as reflected in this DA 180.01C represented by “P” as above must be carried forward to the DA 180 (front-page) section B.2 to be inserted in the Industrial Process fields according to the corresponding IPCC codes.

## 2.1.7 Explanation of the fields on the DA 180.02 – Carbon Tax Allowances

Section A. Licensee particulars:	
<b>Warehouse number</b>	The relevant warehouse number allocated to the licensed business entity (e.g. PEZVM 01927)
<b>Excise Client Code</b>	The Excise code issued to the licensee (e.g. 22684003)
<b>Licensee</b>	The official business entity name of the licensee as registered with the Registrar of Companies
<b>Company name</b>	The official company name of the licensee as registered with the Registrar of Companies
<b>Physical Address</b>	The street address of the licensed business entity
<b>Postal code</b>	The postal area code of the licensed business entity
<b>Accounting Period</b>	The twelve (12) month period in which the carbon emissions occurred at the emission facilities licensed under the business entity. The twelve (12) month period starts on 1 January and ends on 31 December of each calendar year.

Section B. Calculation of Allowances	
<b>B.1 – Performance allowance formula for column 692.05:</b>	<p><math>(A / B - C) \times D = Z</math>, in which formula –</p> <p>“Z” represents the percentage to be determined that must not be less than zero.</p> <p>“A” represents the sector or sub-sector greenhouse gas emissions intensity benchmark as prescribed by the Minister of Finance or the number zero where no value is prescribed.</p> <p>“B” represents the measured and verified greenhouse gas emissions intensity of a taxpayer in respect of a tax period.</p> <p>“C” represents the number one.</p> <p>“D” represents the number 100.</p>
<b>B.2 - Determine the percentages for the relevant allowances per IPCC code as reflected in the matching activity line of the prescribed Schedule:</b>	The percentages for the relevant Basic Tax Free (692.01), Industrial Process Emissions (692.02), Fugitive Emissions (692.03), Trade Exposure (692.04), Performance (692.05), Carbon Budget (692.06) and / or Offset (692.07) allowances should be summed (G) to not exceed the prescribed maximum total percentage of allowances (H) per IPCC code.

Section C
The relevant allowances in B.2 above must be carried forward for declaration in the relevant fields of section B.3 on the DA 180 (front page) according to the corresponding IPCC codes.

### 3 MEASURES

- a) N/A

## 4 REFERENCES

### 4.1 Legislation

TYPE OF REFERENCE	REFERENCE
Legislation and Rules administered by SARS:	<b>Customs and Excise Act No. 91 of 1964:</b> Sections 20(4), 27, 54A – F, 87, 88, and 101 <b>Customs and Excise Rules:</b> 60.08(2)(a)(i) and 119A.R101A(d) <b>Carbon Tax Act, No.15 of 2019:</b> Schedule 2, Rules 54FD <b>Customs and Excise Tariff:</b> Schedule 1 Part 3F and Schedule 6 <b>Value-Added Tax Act No. 89 of 1991:</b> Section 7(3)(a)
Other Legislation:	<b>Carbon Tax Act, No.15 of 2019:</b> Section 4(1) and 4(2) <b>Promotion of Administrative Justice Act, No.3 of 2000</b>
International Instruments:	<b>None</b>

### 4.2 Cross References

DOCUMENT #	DOCUMENT TITLE
EA-01-M01	eAccount on eFiling – External Manual
GEN-PAY-01-G01	SARS payment rules – External Guide
SE-ACC-02-M02	Declaration and Return submission via eFiling – External Manual
SE-ACC-05	Submission of accounts / returns – External Policy
SE-LR-02	Licensing and Registration – External Policy
SE-PAY-02	Prescribed payment Rules – External Policy

### 4.3 Quality Records

NUMBER	TITLE
DA 180	Environmental Levy Account for Carbon Tax
DA 180.01A.1	Fuel Combustion (Stationary)
DA 180.01A.2	Fuel Combustion (Non-Stationary)
DA 180.01B.1	Fugitive (Oil and Natural Gas)
DA 180.01B.2	Fugitive (Coal Mining and Handling)
DA 180.01C	Industrial Process
DA 180.02	Carbon Tax Allowances
EXD 180	Electronic account SARS eFiling

## 5 DEFINITIONS AND ACRONYMS

<b>CBT</b>	Carbon Tax
<b>DEFF</b>	Department of Environmental, Forestry and Fisheries
<b>GHG</b>	Greenhouse Gas
<b>IPCC</b>	Means the Intergovernmental Panel on Climate Change established for the purposes of providing internationally co-ordinated scientific assessments of the magnitude, timing and potential environmental and socio-economic impact of climate change by the United Nations Environment Programme (UNEP) and the World Meteorological Organization (WMO) and endorsed by the United Nations by General Assembly Resolution 43/53 made at the 70 <sup>th</sup> plenary meeting on 6 December 1988.
<b>IPCC Code</b>	Means the source code in respect of an activity resulting in the emission of a greenhouse gas as stipulated in the “Guidelines for National Greenhouse Gas Inventories” (2006) issued by the IPCC.
<b>TJ</b>	Terra Joule
<b>SA</b>	South Africa
<b>SARS</b>	South African Revenue Service

## 6 DOCUMENT MANAGEMENT

<b>Business Owner</b>	Executive: Excise
<b>Document Owner</b>	Head: Business Design and Engineering
<b>Author</b>	Noeleen Singh
<b>Detail of change from previous revision</b>	Initial release
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