

# **GHG Emissions Performance Standards and Methodology for the Determination of the Total Annual Emissions Limit**

MARCH 2024



# GHG Emissions Performance Standards and Methodology for the Determination of the Total Annual Emissions Limit

Ministry of the Environment, Conservation and Parks

**Methodology Version March 2024.** This Methodology is only available in English.

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# 1 Introduction and Applicability

This Methodology is incorporated by reference into O. Reg. 241/19 Greenhouse Gas Emissions Performance Standards (the Regulation). The Methodology must be read in conjunction with the requirements set out in Part III of the Regulation (Compliance) and with the requirements under O. Reg. 390/18 Greenhouse Gas Emissions: Quantification, Reporting and Verification (the Reporting Regulation).

The owner or operator of an EPS facility that is required by the Regulation to determine the Total Annual Emissions Limit (TAEL) in respect of the facility for the 2023 compliance period and each subsequent compliance period shall use this version of the Methodology.

Section 3 of the Methodology sets out the methods for determining annual activity emissions limits (AAELs) that apply in respect of the industrial activities engaged in at the EPS facility.

Section 4 of the Methodology provides for the determination of stringency factors in respect of the industrial activities engaged in at the EPS facility.

Section 5 of the Methodology describes adjustments to calculations in respect of the first compliance period in respect of a registration period.

Section 6 of the Methodology describes adjustments to calculations in respect of sites added or removed from a facility.

Section 7 of the Methodology sets out requirements in respect of making a request under the Regulation for a baseline emissions intensity (BEI).

Appendix A provides details on how to identify and locate a facility, or a site that forms part of the facility, associated with a GHG ID or GHGRP ID set out in a method for determining annual activity emissions limits (AAELs).

Appendix B identifies the methods that may be used in respect of electricity and thermal energy produced at a facility.

## 2 Definitions

For the purposes of this Methodology:

“**Activity component**” has the same meaning as in the Reporting Regulation.

“**Compliance period**” has the same meaning as in the Regulation.

“**Covered facility**” has the same meaning as in the Reporting Regulation.

“**Director**” has the same meaning as in the Regulation.

“**EPS facility**” has the same meaning as in the Regulation.

“**EPS parameter**” has the same meaning as in the Reporting Regulation.

**“Facility”** means a covered facility.

**“Final product”** means a product that is produced at one or more sites that form part of a facility and that is transferred out of the facility.

**“Fixed process emissions”** or **“FPE”** means any of the following:

- (1) Stoichiometric CO<sub>2</sub> emissions from the use of reductants and, flux reagents in steel, base metal and other metal processing;
- (2) Stoichiometric CO<sub>2</sub> emissions from the steam methane reforming process to produce hydrogen;
- (3) Stoichiometric CO<sub>2</sub> emissions from the production of ammonia;
- (4) Process CO<sub>2</sub> emissions, calculated in accordance with the Guideline, under any of the following Standard Quantification Methods:
  - (i) adipic acid production;
  - (ii) base metal production using an electric arc furnace;
  - (iii) carbonate use;
  - (iv) cement production from the calcination of limestone;
  - (v) glass production;
  - (vi) iron, steel and ferro-alloy production using an electric arc furnace or basic oxygen furnace;
  - (vii) lime production from the calcination of limestone;
  - (viii) nitric acid production;
  - (ix) soda ash production.

**“GHG ID”** means the number assigned to a covered facility, or a site that forms part of the facility, by the Ministry for the purposes of reporting greenhouse gas emissions.

**“GHGRP ID”** means the number assigned to a covered facility, or a site that forms part of the facility, by Environment and Climate Change Canada for the purposes of reporting greenhouse gas emissions to the federal government.

**“Guideline”** has the same meaning as in the Reporting Regulation.

**“Input material”** means a material that is:

- (1) not produced at a facility and is used in the processing or production of an intermediate product or a final product at the facility, or
- (2) an intermediate product that is used at a facility as an input in the processing or production of another intermediate product or a final product at the facility.

**“Intermediate product”** means a product produced at one or more sites that form part of a facility that is not transferred out of the facility.

“**Methodology**” has the same meaning as in the Regulation.

“**Ministry**” means the Ministry of the Environment, Conservation and Parks.

“**Non-fixed process emissions**” or “**NonFPE**” means all greenhouse gas emissions that are not fixed process emissions.

“**Regulation**” means Ontario Regulation 241/19 (Greenhouse Gas Emissions Performance Standards), made under the *Environmental Protection Act*.

“**Reporting Regulation**” means Ontario Regulation 390/18 (Greenhouse Gas Emissions: Quantification, Reporting and Verification) made under the *Environmental Protection Act*.

“**Verification amount**” has the same meaning as in the Reporting Regulation.

Where a term is not defined in this **Methodology**, the definition in the **Regulation**, **Reporting Regulation** or **Guideline** applies.

### **3 Methods for Determining Annual Activity Emissions Limits**

#### **3.1 Annual Activity Emissions Limits**

Where the Regulation requires the owner or operator of a covered facility to identify all of the methods for determining AAELs that apply in respect of the industrial activities engaged in at the EPS facility, and for each method that applies, determine the AAEL in accordance with the method, the methods set out in sections 3.1.1 to 3.1.7 below (Methods A through G) shall be used.

If Section 5.1 applies to the owner or operator of a covered facility, the AAELs shall be determined using the substitution in Section 5.2.

If Section 6.1 applies to the owner or operator of a covered facility, the AAELs shall be determined using the substitution in Section 6.2.

### 3.1.1 Method A: Sector Performance Standard

- (a) The owner or operator of a covered facility engaged in an industrial activity set out in Column 1 of Table A shall use Formula 3.1.1-1 to calculate the facility  $AAEL_A$ , in respect of each activity component set out in Column 2 that is part of the industrial activity, unless paragraph (1) or (2) below applies:
- (1) The activity component is steel produced from an electric arc furnace and the facility, or a site that forms part of the facility, is identified with one of the following GHG IDs:
- (i) 1055
  - (ii) 1084
- (2) The activity component is gold produced through the mining and milling of gold ore.
- (b) Despite paragraph (a) (2) of this section, the owner or operator of a covered facility, or a site that forms part of the facility, identified with one of the following GHG IDs shall use Formula 3.1.1-1 to calculate the facility  $AAEL_A$ , in respect of the activity component gold produced through the mining and milling of gold ore:
- (i) 1056
  - (ii) 1193
  - (iii) 1198

$$AAEL_{A,y} = \sum_{i=1}^n [(PS_{A,i,y,FPE} + PS_{A,i,y,nonFPE}) \times Production_{A,i,y}]$$

**Formula 3.1.1-1**

Where,

**n** = the number of activity components set out in Column 2 of Table A that apply to the covered facility

**i** = an activity component set out in Column 2 of Table A in respect of the industrial activity in Column 1 of Table A engaged in at the facility

**y** = year of the compliance period

**$PS_{A,i,y,FPE}$**  = Fixed Process Emissions Sector Performance Standard for the activity component “i” in year “y” expressed in tonnes of CO<sub>2</sub>e per unit of the EPS parameter set out in Column 3 of Table A opposite the activity component calculated in accordance with Formula 3.1.1-2

**PS<sub>A,i,y,nonFPE</sub>** = Non-Fixed Process Emissions Sector Performance Standard for the activity component “i” in year “y” expressed in tonnes of CO<sub>2</sub>e per unit of the EPS parameter set out in Column 3 of Table A opposite the activity component calculated in accordance with Formula 3.1.1-3

**Production<sub>A,i,y</sub>** = Annual amount of the EPS parameter in Column 3 of Table A set out opposite activity component “i” in year ‘y’ reported under the Reporting Regulation and Guideline

$$PS_{A,i,y,FPE} = BEI_{A,i,FPE} \times SF_{y,FPE}$$

**Formula 3.1.1-2**

Where,

**i** = an activity component set out in Column 2 of Table A in respect of the industrial activity in Column 1 of Table A engaged in at the facility

**y** = year of the compliance period

**BEI<sub>A,i,FPE</sub>** = Fixed Process Baseline Emissions Intensity set out in Column 4 of Table A opposite the activity component ‘i’ expressed in tonnes of CO<sub>2</sub>e per unit of the EPS parameter set out in Column 4 of Table A opposite the activity component

**SF<sub>y,FPE</sub>** = Fixed Process Emissions Stringency Factor for the industrial activity in year “y” as determined in accordance with Section 4.1

$$PS_{A,i,y,nonFPE} = BEI_{A,i,nonFPE} \times SF_{y,nonFPE}$$

**Formula 3.1.1-3**

Where,

**i** = an activity component set out in Column 2 of Table A in respect of the industrial activity in Column 1 of Table A engaged in at the facility

**y** = year of the compliance period

**BEI<sub>A,i,nonFPE</sub>** = Non-Fixed Process Baseline Emissions Intensity set out in Column 5 of Table A opposite the activity component ‘i’ expressed in tonnes of CO<sub>2</sub>e per unit of the EPS parameter set out in Column 5 of Table A opposite the activity component

**SF<sub>y,nonFPE</sub>** = Non-Fixed Process Emissions Stringency Factor for the industrial activity in year “y” as determined in accordance with Section 4.2



**Table A**

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>	<b>Column 4</b>	<b>Column 5</b>	<b>Column 6</b>
<b>Industrial activity</b>	<b>Activity Component</b>	<b>EPS Parameter (Units)</b>	<b>BEI<sub>A,FPE</sub></b>	<b>BEI<sub>A,nonFPE</sub></b>	<b>BEI Units</b>
Producing cement from clinker. (Item 8 of Schedule 2 of the Regulation)	Intermediate clinker produced	Mass (expressed in tonnes)	0.533	0.355	t CO <sub>2</sub> e/t intermediate clinker
Producing cement from clinker. (Item 8 of Schedule 2 of the Regulation)	Grey cement produced from clinker produced at the covered facility	Mass (expressed in tonnes)	0.490	0.326	t CO <sub>2</sub> e/t grey cement
Petroleum refining through either the distillation of crude oil or through cracking, rearranging or reforming unfinished petroleum derivatives. (Item 4 of Schedule 2 of the Regulation)	CAN-CWB per calendar year	Amount (expressed in CAN-CWB)	0	0.0046	t CO <sub>2</sub> e/ CAN-CWB
Producing iron or steel from smelted iron ore or producing metallurgical coke. (Item 17 of Schedule 2 of the Regulation)	Coke produced from a coke oven	Mass (expressed in tonnes)	0	0.536	t CO <sub>2</sub> e/t coke
Producing iron or steel from smelted iron ore or producing metallurgical coke. (Item 17 of Schedule 2 of the Regulation)	Iron produced from a blast furnace	Mass (expressed in tonnes)	1.034	0.366	t CO <sub>2</sub> e/t liquid iron
Producing iron or steel from smelted iron ore or producing metallurgical coke. (Item 17 of Schedule 2 of the Regulation)	Steel produced from a basic oxygen furnace (BOF)	Mass (expressed in tonnes)	0.148	0.013	t CO <sub>2</sub> e/ t BOF steel
Producing steel from feedstock that comes primarily from iron or scrap steel. (Item 16 of Schedule 2 of the Regulation)	Steel produced from an electric arc furnace (EAF)	Mass (expressed in tonnes)	0.083	0.042	t CO <sub>2</sub> e/t EAF steel

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Industrial activity	Activity Component	EPS Parameter (Units)	BEI <sub>A,FPE</sub>	BEI <sub>A,nonFPE</sub>	BEI Units
Petroleum refining through either the distillation of crude oil or through cracking, rearranging or reforming unfinished petroleum derivatives. (Item 4 of Schedule 2 of the Regulation)	Hydrogen produced at a petroleum refinery	Mass (expressed in tonnes)	5.5 x (SF <sub>y,FPE</sub> - SF <sub>y,nonFPE</sub> )	0	t CO <sub>2</sub> e/t hydrogen
Producing hydrogen gas using steam hydrocarbon reforming or partial oxidation of hydrocarbons. (Item 7 of Schedule 2 of the Regulation)	Hydrogen produced.	Mass (expressed in tonnes)	5.5	5.4	t CO <sub>2</sub> e/t hydrogen
Producing metal or diamonds from the mining or milling of ore or kimberlite. (Item 20 of Schedule 2 of the Regulation)	Gold produced through the mining and milling of gold ore	Mass (expressed in kg)	0	7.21	t CO <sub>2</sub> e/kg gold
Producing nitric acid by the catalytic oxidation of ammonia. (Item 23 of Schedule 2 of the Regulation)	Nitric acid produced	Mass (expressed in tonnes)	0.0239	0.289	t CO <sub>2</sub> e/t nitric acid
Producing anhydrous ammonia or aqueous ammonia by the steam reforming of a hydrocarbon. (Item 24 of Schedule 2 of the Regulation)	Anhydrous ammonia or aqueous ammonia produced	Mass (expressed in tonnes)	1.28	0.438	t CO <sub>2</sub> e/t ammonia
Producing anhydrous ammonia or aqueous ammonia by the steam reforming of a hydrocarbon. (Item 24 of Schedule 2 of the Regulation)	Urea produced	Mass (expressed in tonnes)	0	0.123	t CO <sub>2</sub> e/t urea

### 3.1.2 Method B: Electricity Generation Sector Performance Standard

(a) An owner or operator of a covered facility engaged in the industrial activity of Generating Electricity Using Fossil Fuels (Item 38 of Schedule 2 of the Regulation), including using a cogeneration system, may use Formula 3.1.2-1 to calculate the  $AAEL_B$ , unless either paragraph (1) or (2) below applies:

- (1) The owner or operator used Formula 3.1.1-1 to calculate the facility  $AAEL_A$ , in respect of one or more of the following the activity components set out in Column 2 of Table A:
  - (i) gold produced through the mining and milling of gold ore and the facility, or a site that forms part of the facility, is identified with one of the following GHG IDs:
    - (A) 1056
    - (B) 1193
    - (C) 1198
  - (ii) grey cement produced from clinker;
  - (iii) intermediate clinker produced.
- (2) The covered facility, or a site that forms part of the facility, is one whose GHG ID is set out in Column 1 of Table B.1 in Appendix B, and Column 2 opposite the GHG ID indicates “no”.

$$AAEL_{B,y} = PS_{B,y} \times \sum_{i=1}^n Production_{B,i,y} \times NBF_{i,y}$$

**Formula 3.1.2-1**

Where,

**n** = the number of applicable combustion devices that generate electricity at the covered facility

**i** = an applicable combustion device that generates electricity

**y** = year of the compliance period

**$PS_{B,y}$**  = Electricity generation sector Performance Standard expressed in tonnes of CO<sub>2</sub>e per gigawatt hour (tCO<sub>2</sub>e/GWh) of electricity generated in year “y”, calculated in accordance with Formula 3.1.2-2

**$Production_{B,i,y}$**  = Annual electricity generated from the combustion device “i” for the production of electricity in year “y” expressed in gigawatt hours (GWh), reported under the Reporting Regulation and Guideline.

**NBF<sub>i,y</sub>** = The non-biomass, non-coke oven gas and non-blast furnace gas, fraction of the total energy input (in GJ) into the combustion device “i” divided by the total energy input (in GJ) of all fuels into the combustion device that generates the electricity, reported under the Reporting Regulation and Guideline.

$$PS_{B,y} = BEI_B \times SF_{y,nonFPE}$$

**Formula 3.1.2-2**

Where,

**y** = year of the compliance period

**BEI<sub>B</sub>** = 310 tonnes of CO<sub>2e</sub> per gigawatt hour (tCO<sub>2e</sub>/GWh)

**SF<sub>y,nonFPE</sub>** = Non-Fixed Process Emissions Stringency Factor for the industrial activity in year “y” as determined in accordance with Section 4.2

### **3.1.3 Method C: Cogeneration Thermal Energy Sector Performance Standard**

- (a) Subject to what is set out in subsection (b) below, an owner or operator of a covered facility engaged in one of the following may use Formula 3.1.3-1 to calculate the facility AAEL<sub>C</sub>:
- (1) Generating electricity using fossil fuels with a cogeneration system, or
  - (2) Generating useful thermal energy from a boiler, that is not part of a cogeneration system, and transferring that useful thermal energy to another EPS facility.
- (b) The owner or operator of a facility described in subsection (a) may not use Formula 3.1.3-1 to calculate the AAEL<sub>C</sub>, if any of paragraphs (1) through (3) apply:
- (1) The owner or operator used Formula 3.1.1-1 to calculate the facility AAEL<sub>A</sub>, in respect of the activity component gold produced through the mining and milling of gold ore set out in Column 2 of Table A and the facility, or a site that forms part of the facility, is identified with one of the following GHG IDs:
    - (i) 1056
    - (ii) 1193
    - (iii) 1198
  - (2) The owner or operator is one whose GHG ID is set out in Column 1 of Table B.1 in Appendix B, and Column 3 opposite the GHG ID indicates “no”,
  - (3) The owner or operator is one to which either Method D or Method E applies and transferred thermal energy from a cogeneration system related to the activity component in the year, but reported an amount of zero for the TET<sub>y</sub> term under either Formula 3.1.4-1 or Formula 3.1.5-1.
- (c) The owner or operator of the facility described in subsection (a) shall not include any amount of useful thermal energy generated at the facility and transferred to another EPS facility in the Production<sub>C,I,y</sub> used in Formula 3.1.3-1 that is a result of engaging in an industrial activity and producing an activity component set out in Column 2 of Table A unless the activity component is gold produced through the mining and milling of gold ore.
- (d) The owner or operator described in subsection (a) shall not include any amount of useful thermal energy generated at the facility in the Production<sub>C,I,y</sub> used in Formula 3.1.3-1 if that useful thermal energy is used in the production of electricity.

$$AAEL_{C,y} = PS_{C,y} \times \sum_{i=1}^n Production_{C,i,y} \times NBF_{i,y}$$

**Formula 3.1.3-1**

Where,

**n** = the number of applicable combustion devices that generate useful thermal energy at the covered facility

**i** = an applicable combustion device that generates useful thermal energy

**y** = year of the compliance period

**PS<sub>C,y</sub>** = Thermal energy sector Performance Standard expressed in tonnes of CO<sub>2e</sub> per gigajoule (tCO<sub>2e</sub>/GJ) of useful thermal energy transferred in year “y”, calculated in accordance with Formula 3.1.3-2

**Production<sub>C,i,y</sub>** = Annual useful thermal energy that is generated from the cogeneration system, or generated from a combustion device “i” and is transferred to another EPS facility in year “y”, expressed in gigajoules (GJ), reported under the Reporting Regulation and Guideline.

**NBF<sub>i,y</sub>** = The non-biomass, non-coke oven gas and non-blast furnace gas, fraction of the total energy input expressed in gigajoules (GJ) into the combustion device “i” divided by the total energy input expressed in gigajoules (GJ) of all fuels into the combustion device that generates the electricity, reported under the Reporting Regulation and Guideline.

$$PS_{C,y} = BEI_C \times SF_{y,nonFPE}$$

**Formula 3.1.3-2**

Where,

**y** = year of the compliance period

**BEI<sub>C</sub>** = 0.063 tonnes of CO<sub>2e</sub> per gigajoule (tCO<sub>2e</sub>/GJ)

**SF<sub>y,nonFPE</sub>** = Non-Fixed Process Emissions Stringency Factor for the industrial activity in year “y” as determined in accordance with Section 4.2.

### **3.1.4 Method D: Facility Specific Performance Standard (Facilities Not Subject to Method E)**

- (a) If a BEI in respect of an activity component is set out in a notice given under subsection 12.1 (1) of the Regulation, an owner or operator of the covered facility shall use Formula 3.1.4-1 to calculate the facility AAEL<sub>D</sub> in respect of that activity component set out in the notice.
- (b) If no BEI in respect of an activity component that is part of the industrial activity associated with an eligible modification made to the facility is set out in a notice given under subsection 12.1 (1) of the Regulation, an owner or operator of the covered facility may use Transitional Formula 3.1.4-2 to calculate the facility AAEL<sub>D</sub> in respect of the activity component if all of the following criteria are met:
- (1) The eligible modification:
    - (i) is a change described in paragraph 2 or 3 of subsection 1 (4) of the Regulation; and
    - (ii) has been substantially completed.
  - (2) The activity component:
    - (i) is part of the industrial activity associated with the eligible modification, and
    - (ii) resulted in the highest proportion of greenhouse gas emissions in the year associated with the eligible modification.
  - (3) None of the circumstances set out in paragraphs 2 through 6 of subsection 12.1 (2) of the Regulation apply to the industrial activity engaged in at the facility or the activity component for which Transitional Formula 3.1.4-2 is to be used.
  - (4) The BEI is not deemed to be zero under paragraph (a) of subsection 12 (3) of the Regulation.
- (c) If no BEI in respect of an activity component that is part of the industrial activity associated with a change in the composition of sites that constituted the facility is set out in a notice given under subsection 12.1 (1) of the Regulation, an owner or operator of the covered facility may use Transitional Formula 3.1.4-6 to calculate the facility AAEL<sub>D</sub> in respect of the activity component if all of the following criteria are met:
- (1) The site that was added to the facility:
    - (i) was the subject of the notice given under subsection 8 (3) of the Regulation;
    - (ii) did not constitute part of another covered facility prior to the effective date of the change set out in the notice described in subparagraph (i) above; and
    - (iii) was not engaged in the industrial activity prior to the effective date of the change set out in the notice given under subsection 8 (3) of the Regulation.

- (2) The owner or operator of the facility did not engage in any industrial activity at the site mentioned in paragraph (c) (1), prior to the effective date of the change set out in the notice given under subsection 8 (3) of the Regulation.
- (3) None of the circumstances set out in paragraphs 2 through 6 of subsection 12.1 (2) of the Regulation apply to the industrial activity engaged in at the site or the activity component for which Transitional Formula 3.1.4-6 is to be used.
- (4) The BEI is not deemed to be zero under paragraph (b) of 12 (3) of the Regulation.
- (5) The portion of the facility's verification amount attributable to the site mentioned in subsection (1) above meets both of the following criteria:
  - (i) the highest proportion of the greenhouse gas emissions are attributable to the activity component.
  - (ii) no more than 50 per cent of the greenhouse gas emissions are attributable to engaging in the industrial activity Generating electricity using fossil fuels (Item 38 of Schedule 2 of the Regulation) unless the electricity is generated using a cogeneration system.

$$AAEL_{D1,y} = \sum_{i=1}^n (PS_{D1,i,y,nonFPE} \times Production_{D1,i,y}) - (TET_y \times 0.063 \times SF_{y,nonFPE})$$

**Formula 3.1.4-1**

Where,

**n** = the number of activity components set out in the notice given under subsection 12.1 (1) of the Regulation

**i** = an activity component set out in the notice given under subsection 12.1 (1) of the Regulation

**y** = year of the compliance period

**PS<sub>D1,i,y,nonFPE</sub>** = Non-Fixed Process Emissions Facility Performance Standard for the activity component "i" in year "y" expressed in tonnes of CO<sub>2e</sub> per unit of the EPS Parameter set out in the notice issued under subsection 12.1 (1) of the Regulation in respect of the activity component calculated in accordance with Formula 3.1.4-3

**Production<sub>D1,i,y</sub>** = Annual amount of the EPS parameter in respect of the activity component "i" in year "y" expressed in the units set out in the notice given under subsection 12.1 (1) of the Regulation, and reported under the Reporting Regulation and Guideline



**TET<sub>y</sub>** = The amount of thermal energy transferred in year “y” from any other EPS facility to the covered facility; or from a cogeneration system to the production processes for all activity components “i” within the same facility, reported under the Reporting Regulation and Guideline. If there is thermal energy transferred from a cogeneration system to the production processes in the year, an amount of zero may be entered for that thermal energy transferred if Method C is not used for any useful thermal energy.

**SF<sub>y,nonFPE</sub>** = Non-Fixed Process Emissions Stringency Factor for the industrial activity in year “y” as determined in accordance with Section 4.2

$$AAEL_{D2,y} = PS_{D2,i,y,nonFPE} \times Production_{D2,i,y}$$

**Formula 3.1.4-2**

Where,

**i** = the activity component described in subsection (b) of this section

**y** = year of the compliance period

**PS<sub>D2,i,y,nonFPE</sub>** = Non-Fixed Process Emissions Facility Performance Standard for the activity component “i” in year “y” expressed in tonnes of CO<sub>2e</sub> per unit of the EPS parameter in respect of the activity component calculated in accordance with Formula 3.1.4-4

**Production<sub>D2,i,y</sub>** = Annual amount of the EPS parameter in respect of the activity component “i” in year “y” reported under the Reporting Regulation and Guideline

$$PS_{D1,i,y,nonFPE} = BEI_{D1,i,nonFPE} \times SF_{y,nonFPE}$$

**Formula 3.1.4-3**

Where,

**i** = an activity component set out in the notice given under subsection 12.1 (1) of the Regulation

**y** = year of the compliance period

**BEI<sub>D1,i,nonFPE</sub>** = Non-Fixed Process Baseline Emissions Intensity for the facility, or a site that forms part of the facility, for the activity component “i” expressed in tonnes of CO<sub>2e</sub> per unit of the EPS parameter set out in the notice given under subsection 12.1 (1) of the Regulation

**SF<sub>y,nonFPE</sub>** = Non-Fixed Process Emissions Stringency Factor for the industrial activity in year “y” as determined in accordance with Section 4.2

$$PS_{D2,i,y,nonFPE} = BEI_{D2,i,nonFPE} \times SF_{y,nonFPE}$$

**Formula 3.1.4-4**

Where,

**i** = the activity component described in subsection (b) of this section

**y** = year of the compliance period

**BEI<sub>D2,i,nonFPE</sub>** = Non-Fixed Process Baseline Emissions Intensity for the facility for the activity component “i” expressed in tonnes of CO<sub>2e</sub> per unit of the EPS parameter calculated in accordance with Formula 3.1.4-5, reported under the Reporting Regulation and Guideline

**SF<sub>y,nonFPE</sub>** = Non-Fixed Process Emissions Stringency Factor for the industrial activity in year “y” as determined in accordance with Section 4.2

$$BEI_{D2,i,nonFPE} = \sum_y^{y+2} Emissions_{i,y} \div \sum_y^{y+2} Production_{i,y}$$

**Formula 3.1.4-5**

Where,

**i** = the activity component described in subsection (b) of this section

**y** = the year in which the facility’s eligible modification is substantially completed

**Emissions<sub>i,y</sub>** = Annual emissions that are attributable to the activity component “i” in year “y” and that meet the criteria set out in paragraph 2 of subsection 7.1(a), reported under the Reporting Regulation and Guideline

**Production<sub>i,y</sub>** = Annual amount of the EPS parameter in respect of the activity component “i” in year “y”, reported under the Reporting Regulation and Guideline

$$AAEL_{D3,y} = PS_{D3,i,y,nonFPE} \times Production_{D3,i,y}$$

**Formula 3.1.4-6**

Where,

**i** = the activity component described in subsection (c) of this section

**y** = year of the compliance period

**PS<sub>D3,i,y,nonFPE</sub>** = Non-Fixed Process Emissions Facility Performance Standard for the activity component “i” in year “y” expressed in tonnes of CO<sub>2e</sub> per unit of the EPS parameter in respect of the activity component calculated in accordance with Formula 3.1.4-7

**Production<sub>D3,i,y</sub>** = Annual amount of the EPS parameter in respect of the activity component “i” in year “y”, reported under the Reporting Regulation and Guideline

$$PS_{D3,i,y,nonFPE} = BEI_{D3,i,nonFPE}$$

**Formula 3.1.4-7**

Where,

**i** = the activity component described in subsection (c) of this section

**y** = year of the compliance period

**BEI<sub>D3,i,nonFPE</sub>** = Non-Fixed Process Baseline Emissions Intensity for the site mentioned in subsection (c) of this section, for the activity component “i” expressed in tonnes of CO<sub>2e</sub> per unit of the EPS parameter calculated in accordance with Formula 3.1.4-8

$$BEI_{D3,i,nonFPE} = Emissions_y \div Production_{i,y}$$

**Formula 3.1.4-8**

Where,

**i** = the activity component described in subsection (c) of this section

**y** = year of the compliance period

**Emissions<sub>y</sub>** = Portion of the of the covered facility's verification amount that is attributable to the site mentioned in subsection (c) of this section in year "y", reported under the Reporting Regulation and Guideline

**Production<sub>i,y</sub>** = Annual amount of the EPS parameter in respect of the activity component "i" in year "y" at the site mentioned in subsection (c) of this section, reported under the Reporting Regulation and Guideline

### 3.1.5 Method E: Facility Specific Performance Standard

(a) If a covered facility, or a site that forms part of the facility is set out in Table E, the owner or operator of the facility shall use Formula 3.1.5-1 to calculate the  $AAEL_{E,y}$ .

$$AAEL_{E,y} = \sum_{i=1}^n [(PS_{E,i,y,FPE} + PS_{E,i,y,nonFPE}) \times Production_{E,i,y}] - (TET_y \times 0.063 \times SF_{y,nonFPE}) - (BPF_y \times SF_{y,nonFPE})$$

**Formula 3.1.5-1**

Where,

**n** = the number of activity components set out in Column 2 of Table E that apply to the covered facility, or a site that forms part of the facility

**i** = an activity component set out in Column 2 of Table E

**y** = year of the compliance period

**PS<sub>E,i,y,FPE</sub>** = Fixed Process Emissions Facility Performance Standard for the activity component “i” in year “y” expressed in tonnes of CO<sub>2e</sub> per unit of the EPS parameter set out in Column 3 of Table E opposite the activity component calculated in accordance with Formula 3.1.5-2

**PS<sub>E,i,y,nonFPE</sub>** = Non-Fixed Process Emissions Facility Performance Standard for the activity component “i” in year “y” expressed in tonnes of CO<sub>2e</sub> per unit of the EPS parameter set out in Column 3 of Table E opposite the activity component calculated in accordance with Formula 3.1.5-3

**SF<sub>y,nonFPE</sub>** = Non-Fixed Process Emissions Stringency Factor for the industrial activity in year “y” as determined in accordance with Section 4.2

**Production<sub>E,i,y</sub>** = Annual amount of the EPS parameter in Column 3 of Table E set out opposite activity component “i” in year “y” reported under the Reporting Regulation and Guideline

**TET<sub>y</sub>** = The amount of thermal energy transferred in year “y” from any other EPS facility to the covered facility; or from a cogeneration system to the production processes for all activity components “i” within the same facility, reported under the Reporting Regulation and Guideline. If there is thermal energy transferred from a cogeneration system to the production process in the year, an amount of zero may be entered for that thermal energy transferred if Method C is not used for any useful thermal energy

**BPF<sub>y</sub>** = The annual emissions in year “y” from the use of by-product fuels used in the production of hot rolled steel at a facility that engaged in the industrial activity “Producing iron or steel from smelted iron ore or producing metallurgical coke”

(Item 17 of Schedule 2 of the Regulation), expressed in tonnes of CO<sub>2</sub>e, reported under the Reporting Regulation and Guideline

$$PS_{E,i,y,FPE} = BEI_{E,i,FPE} \times SF_{y,FPE}$$

**Formula 3.1.5-2**

Where,

**i** = an activity component set out in Column 2 of Table E

**y** = year of the compliance period

**BEI<sub>E,i,FPE</sub>** = Fixed Process Baseline Emissions Intensity for the facility, or a site that forms part of the facility, for the activity component “i” expressed in tonnes of CO<sub>2</sub>e per unit of the EPS parameter set out in the notice given under subsection 12.1 (6) of the Regulation

**SF<sub>y,FPE</sub>** = Fixed Process Emissions Stringency Factor for the industrial activity in year “y” as determined in accordance with Section 4.1

$$PS_{E,i,y,nonFPE} = BEI_{E,i,nonFPE} \times SF_{y,nonFPE}$$

**Formula 3.1.5-3**

Where,

**i** = an activity component set out in Column 2 of Table E

**y** = year of the compliance period

**BEI<sub>E,i,nonFPE</sub>** = Non-Fixed Process Baseline Emissions Intensity for the facility, or a site that forms part of the facility, for the activity component “i” expressed in tonnes of CO<sub>2</sub>e per unit of the EPS parameter set out in the notice given under subsection 12.1 (6) of the Regulation

**SF<sub>y,nonFPE</sub>** = Non-Fixed Process Emissions Stringency Factor for the industrial activity in year “y” as determined in accordance with Section 4.2

**Table E**

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>	<b>Column 4</b>	<b>Column 5</b>
<b>GHG ID</b>	<b>Activity Component</b>	<b>EPS Parameter (Units)</b>	<b>FPE and NonFPE Intensity years</b>	<b>BEI<sub>E,i,nonFPE</sub> adjusted for biomass combustion CO<sub>2</sub> emissions<sup>[1]</sup></b>
1001	Finished Oilseed Product(s) produced	Mass (expressed in tonnes)	2015 to 2017	
1005	Hot rolled steel produced	Mass (expressed in tonnes)	2015 to 2017	
1005	Annealed steel	Mass (expressed in tonnes)	2015 to 2017	
1005	Finished steel product produced	Mass (expressed in tonnes)	2015 to 2017	
1005	Galvanized steel produced	Mass (expressed in tonnes)	2015 to 2017	
1006	Finished product(s) produced	Mass (expressed in tonnes)	2016 to 2018	
1011	Brick or other products made from clay or shale using a kiln	Mass (expressed in tonnes)	2015 to 2017	
1016	Beans and seeds crushed	Mass (expressed in tonnes)	2015 to 2017	
1017	Carbon black produced	Mass (expressed in tonnes)	2015 to 2017	
1018	Gypsum panels produced	Area (expressed in thousand square feet)	2015 to 2017	
1020	High calcium lime produced	Mass (expressed in tonnes)	2015 to 2017	
1020	Cal-85 produced	Mass (expressed in tonnes)	2015 to 2017	
1020	Lime kiln dust + waste lime produced	Mass (expressed in tonnes)	2015 to 2017	
1021	Dolomitic lime produced	Mass (expressed in tonnes)	2015 to 2017	

Column 1	Column 2	Column 3	Column 4	Column 5
GHG ID	Activity Component	EPS Parameter (Units)	FPE and NonFPE Intensity years	BEI <sub>E,i,nonFPE</sub> adjusted for biomass combustion CO <sub>2</sub> emissions <sup>[1]</sup>
1021	Double burnt lime produced	Mass (expressed in tonnes)	2015 to 2017	
1021	Iron coated dolime produced	Mass (expressed in tonnes)	2015 to 2017	
1021	Lime kiln dust + waste Lime produced	Mass (expressed in tonnes)	2015 to 2017	
1022	High calcium lime produced	Mass (expressed in tonnes)	2015 to 2017	
1022	Lime kiln dust + waste lime produced	Mass (expressed in tonnes)	2015 to 2017	
1023	Finished product(s) produced	Mass (expressed in tonnes)	2016 to 2018	
1024	Gypsum panels produced	Area (expressed in thousand square feet)	2015 to 2017	
1025	Vehicles produced with an internal combustion engine	Amount (expressed in number of vehicles)	2017 to 2020	
1026	Vehicles produced with an internal combustion engine	Amount (expressed in number of vehicles)	2017 to 2020	
1030	Carbon black produced	Mass (expressed in tonnes)	2015 to 2017	
1032	Finished product(s) produced	Mass (expressed in tonnes)	2016 to 2018	Yes
1033	Finished product(s) produced	Mass (expressed in tonnes)	2016 to 2018	Yes
1042	Dolomitic lime produced	Mass (expressed in tonnes)	2015 to 2017	
1042	High calcium lime produced	Mass (expressed in tonnes)	2015 to 2017	



Column 1	Column 2	Column 3	Column 4	Column 5
GHG ID	Activity Component	EPS Parameter (Units)	FPE and NonFPE Intensity years	BEI <sub>E,i,nonFPE</sub> adjusted for biomass combustion CO <sub>2</sub> emissions <sup>[1]</sup>
1042	Hot rolled steel produced	Mass (expressed in tonnes)	2015 to 2017	
1042	Annealed steel	Mass (expressed in tonnes)	2015 to 2017	
1042	Finished steel - heat treated	Mass (expressed in tonnes)	2015 to 2017	
1042	Direct strip steel produced	Mass (expressed in tonnes)	2015 to 2017	
1045	White Cement produced from clinker produced at the covered facility	Mass (expressed in tonnes)	2015 to 2017	
1046	Medium density fibreboard produced	Volume (expressed in cubic meters)	2017 to 2019	
1047	Vehicles produced with an internal combustion engine	Amount (expressed in number of vehicles)	2017 to 2020	
1054	Hot rolled steel produced	Mass (expressed in tonnes)	2014, 2015, 2017	
1055	Steel produced from electric arc furnace	Mass (expressed in tonnes)	2014-2017	
1055	Hot rolled steel produced	Mass (expressed in tonnes)	2014 to 2017	
1060	Fuel ethanol produced	Volume (expressed in kilolitres of absolute ethanol)	2016 to 2017	
1060	Industrial ethanol produced	Volume (expressed in kilolitres of absolute ethanol)	2016 to 2017	
1061	Fuel ethanol produced	Volume (expressed in kilolitres of absolute ethanol)	2014 to 2016	

Column 1	Column 2	Column 3	Column 4	Column 5
GHG ID	Activity Component	EPS Parameter (Units)	FPE and NonFPE Intensity years	BEI <sub>E,i,nonFPE</sub> adjusted for biomass combustion CO <sub>2</sub> emissions <sup>[1]</sup>
1065	Brick or other products made from clay or shale using a kiln	Mass (expressed in tonnes)	2015 to 2017	
1066	Brick or other products made from clay or shale using a kiln	Mass (expressed in tonnes)	2015 to 2017	
1068	Beverage ethanol produced	Volume (expressed in kilolitres of absolute ethanol)	2015 to 2017	
1070	Vehicles produced with an internal combustion engine	Amount (expressed in number of vehicles)	2017 to 2020	
1073	Products from steam cracker	Mass (expressed in tonnes)	2015 to 2017	
1073	Products not from steam cracker	Mass (expressed in tonnes)	2015 to 2017	
1075	Corn milled and corn germ processed	Mass (expressed in tonnes of air-dried corn milled and corn germ processed)	2018	
1076	Corn milled	Mass (expressed in tonnes of air-dried corn milled)	2015 to 2017	
1079	Fuel ethanol produced	Volume (expressed in kilolitres of absolute ethanol)	2015 to 2017	
1080	Finished product(s) produced	Mass (expressed in tonnes)	2015 to 2017	
1081	Nylon resins produced	Mass (expressed in tonnes)	2015 to 2017	
1081	Nylon fibres produced	Mass (expressed in tonnes)	2015 to 2017	
1082	MPMD produced	Mass (expressed in tonnes)	2016 to 2017	

Column 1	Column 2	Column 3	Column 4	Column 5
GHG ID	Activity Component	EPS Parameter (Units)	FPE and NonFPE Intensity years	BEI <sub>E,i,nonFPE</sub> adjusted for biomass combustion CO <sub>2</sub> emissions <sup>[1]</sup>
1082	Diaminocyclohexane (DCH) produced	Mass (expressed in tonnes)	2019 to 2021	
1083	Finished product(s) produced	Mass (expressed in tonnes)	2016 to 2018	
1084	Steel produced from an electric arc furnace	Mass (expressed in tonnes)	2016 to 2018	
1084	Hot rolled steel produced	Mass (expressed in tonnes)	2016 to 2018	
1084	Finished steel product produced	Mass (expressed in tonnes)	2016 to 2018	
1085	Corn milled	Mass (expressed in tonnes)	2016 to 2018	
1085	Citric acid produced	Mass (expressed in tonnes)	2016 to 2018	
1086	Beer and other beverages produced	Volume (expressed in hectolitres)	2017 to 2019	
1092	Poultry processed	Mass (expressed in tonnes)	2017 to 2019	
1094	Finished product(s) produced	Mass (expressed in tonnes)	2015 to 2017	
1100	Ethylene produced	Mass (expressed in tonnes)	2014 to 2016	
1101	Polyethylene produced	Mass (expressed in tonnes)	2014 to 2016	
1102	Polyethylene produced	Mass (expressed in tonnes)	2014 to 2016	
1103	Glass produced	Mass (expressed in tonnes)	2015 to 2017	
1109	Polyvinyl chloride resin produced	Mass (expressed in tonnes)	2018 to 2020	

Column 1	Column 2	Column 3	Column 4	Column 5
GHG ID	Activity Component	EPS Parameter (Units)	FPE and NonFPE Intensity years	BEI <sub>E,i,nonFPE</sub> adjusted for biomass combustion CO <sub>2</sub> emissions <sup>[1]</sup>
1111	Refinery feed	Volume (expressed in kilolitres)	2015 to 2017	
1113	Propane and Butane produced	Volume (expressed in cubic metres),	2015-2017	
1118	Raw sugar processed	Mass (expressed in tonnes)	2015 to 2017	
1120	Finished product(s) produced	Mass (expressed in tonnes)	2015 to 2017	Yes
1121	Mineral wool insulation produced	Mass (expressed in tonnes)	2015 to 2017	
1122	Used oil feed produced	Volume (expressed in kilolitres)	2015 to 2017	
1123	Vaccine produced	Volume (expressed in litres)	2018 to 2020	
1126	Finished product(s) produced	Mass (expressed in tonnes)	2015 to 2017	
1131	Finished product(s) produced	Mass (expressed in tonnes)	2015 to 2017	
1132	Styrene produced	Mass (expressed in tonnes)	2015 to 2017	
1134	Fuel ethanol produced	Volume (expressed in kilolitres of absolute ethanol)	2015 to 2017	
1135	Finished product(s) produced	Mass (expressed in tonnes)	2016 to 2018	Yes
1136	Hot rolled steel produced	Mass (expressed in tonnes)	2015 to 2017	
1136	Finished steel product produced	Mass (expressed in tonnes)	2015 to 2017	
1138	Finished product(s) produced	Mass (expressed in tonnes)	2016 to 2018	Yes

Column 1	Column 2	Column 3	Column 4	Column 5
GHG ID	Activity Component	EPS Parameter (Units)	FPE and NonFPE Intensity years	BEI <sub>E,i,nonFPE</sub> adjusted for biomass combustion CO <sub>2</sub> emissions <sup>[1]</sup>
1139	Wax produced	Mass (expressed in tonnes)	2017 to 2020	
1140	Vehicles produced with an internal combustion engine	Amount (expressed in number of vehicles)	2017 to 2020	
1141	Vehicles produced with an internal combustion engine	Amount (expressed in number of vehicles)	2017 to 2020	
1147	Megawatt hours of work	Energy (expressed in MWh)	2014 to 2016	
1148	Finished steel product produced	Mass (expressed in tonnes)	2015 to 2017	
1149	Hot rolled steel produced	Mass (expressed in tonnes)	2015 to 2017	
1149	Finished steel product produced	Mass (expressed in tonnes)	2015 to 2017	
1157	Total zinc and Copper Concentrate	Mass (expressed in tonnes)	2017-2020	
1158	Nickel matte produced	Mass (expressed in tonnes)	2016 to 2018	
1163	Fuel ethanol produced	Volume (expressed in kilolitres of absolute ethanol)	2015 to 2017	
1163	Industrial ethanol produced	Volume (expressed in kilolitres of absolute ethanol)	2015 to 2017	
1166	Coal tar distillation products produced	Mass (expressed in tonnes)	2017 to 2020	
1167	Fuel ethanol produced	Volume (expressed in kilolitres of absolute ethanol)	2015 to 2017	

Column 1	Column 2	Column 3	Column 4	Column 5
GHG ID	Activity Component	EPS Parameter (Units)	FPE and NonFPE Intensity years	BEI <sub>E,i,nonFPE</sub> adjusted for biomass combustion CO <sub>2</sub> emissions <sup>[1]</sup>
1171	Aluminium alloys produced	Mass (expressed in tonnes)	2015 to 2017	
1172	Aluminium poured	Mass (expressed in tonnes)	2017 to 2020	
1175	Malic acid produced	Mass (expressed in tonnes)	2015 to 2017	
1175	Fumaric acid produced	Mass (expressed in tonnes)	2015 to 2017	
1184	Medium Density Fibreboard produced	Volume (expressed in cubic meters)	2018-2021	
1186	Coils produced	Mass (expressed in tonnes)	2017-2019	
1191	Rubber produced	Mass (expressed in tonnes)	2015 to 2017	
1200	Total synthetic oil, antioxidants, rubber additives and specialty chemical produced	Mass (expressed in tonnes)	2019 to 2021	
1207	Beverage ethanol produced	Volume (expressed in kilolitres of absolute ethanol)	2015 to 2017	
1219	Stocked tires produced	Mass (expressed in thousand pounds)	2016 to 2018	
1224	Zinc oxide (ZnO) produced	Mass (expressed in tonnes)	2018 to 2020	
1225	Hot rolled steel produced	Mass (expressed in tonnes)	2015 to 2017	
1225	Annealed steel	Mass (expressed in tonnes)	2015 to 2017	
1225	Finished steel product produced	Mass (expressed in tonnes)	2015 to 2017	

Column 1	Column 2	Column 3	Column 4	Column 5
GHG ID	Activity Component	EPS Parameter (Units)	FPE and NonFPE Intensity years	BEI <sub>E,i,nonFPE</sub> adjusted for biomass combustion CO <sub>2</sub> emissions <sup>[1]</sup>
1225	Galvanized steel produced	Mass (expressed in tonnes)	2015 to 2017	
1234	Finished product(s) produced	Mass (expressed in tonnes)	2016 to 2018	
1237	Carbon and alloy steel cast billets produced	Mass (expressed in tonnes)	2015 to 2017	
1237	Carbon and alloy steel ingots produced	Mass (expressed in tonnes)	2015 to 2017	
1237	Stainless steel cast billets produced	Mass (expressed in tonnes)	2015 to 2017	
1237	Stainless steel ingots produced	Mass (expressed in tonnes)	2015 to 2017	
1240	Biodiesel produced by acid esterification and base transesterification from renewable biomass lipids	Metric tonne	2016 to 2018	
1245	Particleboard panels produced	Volume (expressed in cubic meters)	2016 to 2018	
1251	Expanded polystyrene produced	Mass (expressed in tonnes)	2016 to 2018	
1251	Wax paper produced	Mass (expressed in tonnes)	2019 to 2021	
1252	Finished product(s) produced	Mass (expressed in tonnes)	2016 to 2018	
1257	Evaporated salt produced	Mass (expressed in tonnes)	2016 to 2019	
1261	Glass produced	Mass (expressed in tonnes)	2015 to 2017	
1263	Glass produced	Mass (expressed in tonnes)	2015 to 2017	

Column 1	Column 2	Column 3	Column 4	Column 5
GHG ID	Activity Component	EPS Parameter (Units)	FPE and NonFPE Intensity years	BEI <sub>E,i,nonFPE</sub> adjusted for biomass combustion CO <sub>2</sub> emissions <sup>[1]</sup>
1266	Heat-treated steel tubing produced	Mass (expressed in tonnes)	2017 to 2020	
1269	Confectionery products manufactured	Mass (expressed in tonnes)	2018 to 2020	
1340	Transmission and power train parts	Amount (expressed in number of parts sold)	2017 to 2019	
1341	Canned food items produced	Mass (expressed in tonnes)	2018 to 2020	
1342	Total billets and extruded product produced	Mass (expressed in tonnes)	2018 to 2020	
1344	Masking tapes produced	Mass (expressed in kilograms)	2018 to 2020	
1344	Medical tapes produced	Mass (expressed in kilograms)	2018 to 2020	
1346	Potato chips and corn snacks produced	Mass (expressed in tonnes)	2017 to 2019	
1356	Gold mined and milled	Mass (expressed in kilograms)	2018 to 2020	
1368	Total uranium hexafluoride (UF <sub>6</sub> ) and uranium dioxide (UO <sub>2</sub> ) converted	Mass (expressed in tonnes of uranium)	2018 to 2020	
1381	Finished pork products produced	Mass (expressed in tonnes)	2017 to 2019	
1384	Evaporated salt produced	Mass (expressed in tonnes)	2018 to 2020	
1406	Glass produced	Mass (expressed in tonnes)	2015 to 2017	
1407	Gold mined and milled	Mass (expressed in kilograms)	2018 to 2020	



Column 1	Column 2	Column 3	Column 4	Column 5
GHG ID	Activity Component	EPS Parameter (Units)	FPE and NonFPE Intensity years	BEI <sub>E,i,nonFPE</sub> adjusted for biomass combustion CO <sub>2</sub> emissions <sup>[1]</sup>
1408	Abrasives produced	Mass (expressed in kilograms)	2018 to 2020	
1408	Capsules produced	Mass (expressed in kilograms)	2018 to 2020	
1409	Uranium trioxide (UO <sub>3</sub> ) refined	Mass (expressed in tonnes of uranium)	2018 to 2020	
1410	Palladium and platinum produced	Mass (expressed in kilograms)	2018 to 2020	
1412	Steel products	Mass (expressed in tonnes)	2019 to 2020	
1414	Gold mined and milled	Mass (expressed in kilograms)	2018 to 2020	
1416	Gold mined and milled	Mass (expressed in kilograms)	2018 to 2020	
1417	Nepheline syenite produced	Mass (expressed in tonnes)	2015 to 2017	
1418	Mined material	Mass (expressed in million tonnes)	2015 to 2017	
1432	Megawatt hours of work	Energy (expressed in MWh)	2015 to 2017	
1456	Gold mined and milled	Mass (expressed in kilograms)	2018 to 2020	
1457	Gold bearing ore produced	Mass (expressed in thousand tonnes milled)	2018 to 2020	
1489	Transmission and power train parts	Amount (expressed in number of parts sold)	2017 to 2019	
1501	Beverages produced	Volume (expressed in kilolitres)	2020-2022	

Column 1	Column 2	Column 3	Column 4	Column 5
GHG ID	Activity Component	EPS Parameter (Units)	FPE and NonFPE Intensity years	BEI <sub>E,i,nonFPE</sub> adjusted for biomass combustion CO <sub>2</sub> emissions <sup>[1]</sup>
1505	Baked goods produced	Mass (expressed in tonnes)	2018 to 2020	
1507	Tape produced	Mass (expressed in kilograms)	2018 to 2020	
1507	Scotch-Brite produced	Mass (expressed in kilograms)	2018 to 2020	
1520	Nylon 6 resin chips	Mass (expressed in tonnes)	2020-2022	
1527	Forged Metal produced	Mass (expressed in tonnes)	2020-2022	
1527	Finished Metal - Heat Treated	Mass (expressed in tonnes)	2020-2022	
1527	Finished Metal Product produced	Mass (expressed in tonnes)	2020-2022	

<sup>[1]</sup> Two per cent of biomass combustion CO<sub>2</sub> emissions has been included in the BEI<sub>E,i,nonFPE</sub> of the facility, or a site that forms part of the facility, is one whose GHG ID is set out in Column 1 of this table, and column 5 opposite the GHG ID indicates “Yes”

### 3.1.6 Method F: Historical Facility Emissions Limit Standard

(a) The owner or operator of a covered facility, or a site that forms part of the facility, set out in Table F shall use Formula 3.1.6-1 to calculate the  $AAEL_F$ .

$$AAEL_{F,y} = (BL_{F,FPE} \times SF_{y,FPE}) + (BL_{F,nonFPE} \times SF_{y,nonFPE})$$

**Formula 3.1.6-1**

Where,

**y** = year of the compliance period

**BL<sub>F,FPE</sub>** = Baseline Fixed Process Emissions for the facility, or a site that forms part of the facility, as set out in Column 3 of Table F

**SF<sub>y,FPE</sub>** = Fixed Process Emissions Stringency Factor for the industrial activity in year “y” as determined in accordance with Section 4.1

**BL<sub>F,nonFPE</sub>** = Baseline Non-Fixed Process Emissions for the facility, or a site that forms part of the facility, as set out in Column 4 of Table F

**SF<sub>y,nonFPE</sub>** = Non-Fixed Process Emissions Stringency Factor for the industrial activity in year “y” as determined in accordance with Section 4.2

**Table F**

Column 1	Column 2	Column 3	Column 4	Column 5
GHG ID	Industrial activity	BL <sub>F,FPE</sub>	BL <sub>F,nonFPE</sub>	Units
1168	Smelting or refining, from feedstock that comes primarily from ore, of at least one of the following metals: nickel, copper, zinc, lead, or cobalt. (Item 1 of Schedule 2 of the Regulation)	102,804	352,132	Tonnes CO <sub>2e</sub>

### **3.1.7 Method G: Steel Sector Facility Specific Performance Standard**

- (a) Subject to what is set out in subsections (b) and (c) below, if a covered facility is one described in paragraph 1 subsection 12.1 (6) of the Regulation, and is set out in Table G, the owner or operator of the facility shall use Formula 3.1.7-1 to calculate the AAEL<sub>G</sub>.
- (b) If a BEI in respect of an activity component set out in Column 3 of Table G is set out in a notice given under subsection 12.1 (6) of the Regulation and the compliance period is 2030 or a prior year, the owner or operator of the covered facility may use the BEI in respect of the activity component in Formula 3.1.7-2 in accordance with the following applicable circumstances and rules:
- (1) If the covered facility is identified with GHG ID 1005, the owner or operator:
- (i) Shall use the BEI in respect of the activity component set out opposite the BEI IDs 1.1 to 1.6 in Table G in the year the facility first produces direct reduced iron and each subsequent year after that year.
  - (ii) Shall not use the BEI in respect of the activity component set out opposite the BEI IDs 1-1 to 1-6 in Table G in the year in which the facility has no production of iron from its blast furnace and each subsequent year after that year.
  - (iii) Shall use the BEI in respect of the activity component set out opposite the BEI ID 2-4 to 2-6 in Table G in the year in which the facility has no production of iron from its blast furnace and each subsequent year after that year.
- (2) If the covered facility is identified with GHG ID 1042, the owner or operator:
- (i) Shall use the BEI in respect of the activity component set out opposite the BEI IDs 3-1 to 3-6 in Table G only in the year the facility first produces steel by an electric arc furnace.
  - (ii) Shall use the BEI in respect of the activity component set out opposite the BEI IDs 4-1 to 4-6 in Table G in the year after the year in which the facility first produces steel by an electric arc furnace and each subsequent year after that year.
  - (iii) Shall not use the BEI in respect of the activity component set out opposite the BEI IDs 4-1 to 4-6 in Table G in the year in which the amount of iron produced from a blast furnace is less than 500,000 tonnes and each subsequent year after that year.
  - (iv) Shall use the BEI in respect of the activity component set out opposite the BEI IDs 5-1 to 5-6 in Table G in the year in which the amount of iron produced from a blast furnace is less than 500,000 tonnes.
  - (v) Shall not use the BEI in respect of the activity component set out opposite the BEI IDs 5-1 to 5-6 in Table G in the year in which the facility has no

production of iron from its blast furnace and each subsequent year after that year.

(vi) Shall use the BEI in respect of the activity component set out opposite the BEI IDs 6-4 to 6-6 in Table G in the year in which the facility has no production of iron from its blast furnace and each subsequent year after that year.

(c) The owner or operator of the covered facility shall not use Formula 3.1.7-1 in respect of an activity component set out in column 3 of Table G if either the following applies:

- (1) Formula 3.1.1-1 was used to calculate the facility  $AAEL_A$ , in respect of the activity component.
- (2) Formula 3.1.2-1 was used to calculate the facility  $AAEL_B$ , in respect of the activity component.

$$AAEL_{G,y} = \sum_{i=1}^n (PS_{G,i,y,nonFPE} \times Production_{G,i,y})$$

**Formula 3.1.7-1**

Where,

**n** = the number of activity components set out in Column 3 of Table G that apply to the covered facility

**i** = an activity component set out in Column 3 of Table G

**y** = year of the compliance period

**PS<sub>G,i,y,nonFPE</sub>** = Non-Fixed Process Emissions Facility Performance Standard for the activity component “i” in year “y” expressed in tonnes of CO<sub>2e</sub> per unit of EPS parameter set out in Column 4 of Table G opposite the activity component calculated in accordance with Formula 3.1.7-2

**Production<sub>G,i,y</sub>** = Annual amount of the EPS parameter in Column 4 of Table G opposite the activity component “i” in year “y” reported under the Reporting Regulation and Guideline.

$$PS_{G,i,y,nonFPE} = BEI_{G,i,nonFPE} \times SF_{y,nonFPE}$$

**Formula 3.1.7-2**

Where,

**i** = an activity component set out in Column 3 of Table G

**y** = year of the compliance period

**BEI<sub>G,i,nonFPE</sub>** = Non-Fixed Process Baseline Emissions Intensity for the facility for the activity component “i” expressed in tonnes of CO<sub>2e</sub> per unit of the EPS parameter set out in the notice given under subsection 12.1 (6) of the Regulation

**SF<sub>y,nonFPE</sub>** = Non-Fixed Process Emissions Stringency Factor for the industrial activity in year “y” as determined in accordance with Section 4.2

**Table G**

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
GHG ID	BEI ID	Activity Component	EPS Parameter (Units)	Intensity years	BEI Units
1005	1-1	Coke produced from a coke oven	Mass (expressed in tonnes)	2026-2030	t CO <sub>2e</sub> /t coke
1005	1-2	Iron produced from a blast furnace	Mass (expressed in tonne)	2026-2030	t CO <sub>2e</sub> /t liquid iron
1005	1-3	Steel produced from a basic oxygen furnace (BOF)	Mass (expressed in tonnes)	2026-2030	t CO <sub>2e</sub> / t BOF steel
1005	1-4	Direct reduced iron	Mass (expressed in tonnes)	2026-2030	t CO <sub>2e</sub> /t DRI
1005	1-5	Steel produced from an electric arc furnace (EAF) installed in or after 2027)	Mass (expressed in tonnes)	2026-2030	t CO <sub>2e</sub> /t EAF steel
1005	1-6	Steel produced from an electric arc furnace (EAF) (installed before 2026)	Mass (expressed in tonnes)	2026-2030	t CO <sub>2e</sub> /t EAF steel
1005	2-4	Direct reduced iron	Mass (expressed in tonnes)	2026-2030	t CO <sub>2e</sub> /t DRI

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
GHG ID	BEI ID	Activity Component	EPS Parameter (Units)	Intensity years	BEI Units
1005	2-5	Steel produced from an electric arc furnace (EAF) installed in or after 2027)	Mass (expressed in tonnes)	2026-2030	t CO <sub>2</sub> e/t EAF steel
1005	2-6	Steel produced from an electric arc furnace (EAF) (installed before 2026)	Mass (expressed in tonnes)	2026-2030	t CO <sub>2</sub> e/t EAF steel
1042	3-1	Coke produced from a coke oven	Mass (expressed in tonnes)	2024-2030	t CO <sub>2</sub> e/t coke
1042	3-2	Iron produced from a blast furnace	Mass (expressed in tonne)	2024-2030	t CO <sub>2</sub> e/t liquid iron
1042	3-3	Steel produced from a basic oxygen furnace (BOF)	Mass (expressed in tonnes)	2024-2030	t CO <sub>2</sub> e/ t BOF steel
1042	3-4	Steel produced from an electric arc furnace (EAF) (hot metal)	Mass (expressed in tonnes)	2024-2030	t CO <sub>2</sub> e/t EAF steel
1042	3-5	Steel produced from an electric arc furnace (EAF) (cold charge)	Mass (expressed in tonnes)	2024-2030	t CO <sub>2</sub> e/t EAF steel
1042	3-6	Annual electricity generated at LSP	Energy (expressed in gigawatt hours)	2024-2030	t CO <sub>2</sub> e/GWh
1042	4-1	Coke produced from a coke oven	Mass (expressed in tonnes)	2024-2030	t CO <sub>2</sub> e/t coke
1042	4-2	Iron produced from a blast furnace	Mass (expressed in tonne)	2024-2030	t CO <sub>2</sub> e/t liquid iron
1042	4-3	Steel produced from a basic oxygen furnace (BOF)	Mass (expressed in tonnes)	2024-2030	t CO <sub>2</sub> e/ t BOF steel
1042	4-4	Steel produced from an electric arc furnace (EAF) (hot metal)	Mass (expressed in tonnes)	2024-2030	t CO <sub>2</sub> e/t EAF steel
1042	4-5	Steel produced from an electric arc furnace (EAF) (cold charge)	Mass (expressed in tonnes)	2024-2030	t CO <sub>2</sub> e/t EAF steel

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
GHG ID	BEI ID	Activity Component	EPS Parameter (Units)	Intensity years	BEI Units
1042	4-6	Annual electricity generated at LSP	Energy (expressed in gigawatt hours)	2024-2030	t CO <sub>2</sub> e/GWh
1042	5-1	Coke produced from a coke oven	Mass (expressed in tonnes)	2024-2030	t CO <sub>2</sub> e/t coke
1042	5-2	Iron produced from a blast furnace	Mass (expressed in tonne)	2024-2030	t CO <sub>2</sub> e/t liquid iron
1042	5-3	Steel produced from a basic oxygen furnace (BOF)	Mass (expressed in tonnes)	2024-2030	t CO <sub>2</sub> e/ t BOF steel
1042	5-4	Steel produced from an electric arc furnace (EAF) (hot metal)	Mass (expressed in tonnes)	2024-2030	t CO <sub>2</sub> e/t EAF steel
1042	5-5	Steel produced from an electric arc furnace (EAF) (cold charge)	Mass (expressed in tonnes)	2024-2030	t CO <sub>2</sub> e/t EAF steel
1042	5-6	Annual electricity generated at LSP	Energy (expressed in gigawatt hours)	2024-2030	t CO <sub>2</sub> e/GWh
1042	6-4	Steel produced from an electric arc furnace (EAF) (hot metal)	Mass (expressed in tonnes)	2024-2030	t CO <sub>2</sub> e/t EAF steel
1042	6-5	Produced from an electric arc furnace (EAF) (cold charge)	Mass (expressed in tonnes)	2024-2030	t CO <sub>2</sub> e/t EAF steel
1042	6-6	Annual electricity generated at LSP	Energy (expressed in gigawatt hours)	2024-2030	t CO <sub>2</sub> e/GWh



## 4 Stringency Factors (SF)

### 4.1 Fixed Process Emissions Stringency Factor

- (a) Subject to subsection (b) below, an owner or operator of a covered facility shall use the Fixed Process Emissions Stringency Factor for the year “y” ( $SF_{y,FPE}$ ) that is set out in Table 4.1 for all industrial activities engaged in at the facility, where “y” is the year of the compliance period. This applies to where the Stringency factor  $SF_{y,FPE}$  term is used in any formula.
- (b) If the facility is identified with GHG ID 1005 or GHG ID 1042, the stringency factor  $SF_{y,FPE}$  in Formula 3.1.1-2 for compliance periods 2023 through 2026 is 1.0 for those facilities.

**Table 4.1**

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10
Industrial activity	$SF_{2022,FPE}$	$SF_{2023,FPE}$	$SF_{2024,FPE}$	$SF_{2025,FPE}$	$SF_{2026,FPE}$	$SF_{2027,FPE}$	$SF_{2028,FPE}$	$SF_{2029,FPE}$	$SF_{2030,FPE}$
All industrial activities	1.0	0.976	0.961	0.946	0.931	0.916	0.901	0.886	0.871

### 4.2 Non-Fixed Process Emissions Stringency Factor

- (a) Subject to subsections (c), (d) and (e) below, if biomass was not used at the covered facility in the 2022 compliance period, the owner or operator of the covered facility engaged in an industrial activity set out in Column 1 of Table 4.2 shall use, for the purposes of using the method set out in Column 2 opposite that industrial activity, the Non-Fixed Process Emissions Stringency Factor for year “y” ( $SF_{y,nonFPE}$ ) that is set out in Table 4.2 opposite the method, where “y” is the year of the compliance period.
- (b) Subject to subsections (c), (d) and (e) below, if biomass was used at the covered facility in the 2022 compliance period, the owner or operator of the covered facility engaged in an industrial activity set out in Column 1 of Table 4.2 shall use, for the purposes of using the method set out in Column 2 opposite that industrial activity, the following to calculate the non-fixed process emissions stringency factor,
- (1) Formula 4.2-1 to calculate the Non-Fixed Process Emissions Stringency Factor for compliance period 2023 ( $SF_{2023,nonFPE}$ ),

- (2) Formula 4.2-2 to calculate the Non-Fixed Process Emissions Stringency Factor for compliance period 2024 and each subsequent compliance period ( $SF_{y,nonFPE}$ ), where “y” is the compliance period in respect of which the calculation is being made,
- (3) Formula 4.2-3 to calculate the  $SF_{2022,bio}$  that is to be considered as  $SF_{2022,nonFPE}$  for compliance period 2022.
- (c) If the industrial activity set out in Column 1 of Table 4.2 is Generating electricity using fossil fuels (Item 38 of Schedule 2 of the Regulation) and the applicable method set out in Column 2 is Method B, the stringency factor  $SF_{y,nonFPE}$  is 1.0.
- (d) If the facility is identified with GHG ID 1005 or GHG ID 1042, the stringency factor  $SF_{y,nonFPE}$  in Formula 3.1.1-3 for compliance periods 2023 through 2026 is 1.0 for those facilities.
- (e) The stringency factor  $SF_{y,nonFPE}$  in Formula 3.1.7-2 is 1.0.

$$SF_{2023,nonFPE} = SF_{2022,bio} - 0.024$$

**Formula 4.2-1**

Where,

$SF_{2022,bio}$  = Non-fixed Process Emissions Stringency Factor for the year 2022 adjusted based on biomass fuel use, calculated in accordance with Formula 4.2-3

$$SF_{y,nonFPE} = (SF_{2023,nonFPE}) - [(y - 2023) \times 0.015]$$

**Formula 4.2-2**

Where,

y = year of the compliance period

$SF_{2023,nonFPE}$  = Non-fixed Process Emissions Stringency Factor for the year 2023, calculated in accordance with Formula 4.2-1

$$SF_{2022,bio} = 1 - [(1 - SF_{2022,nonFPE}) \times NBF_{2022}]$$

**Formula 4.2-3**

Where,

$SF_{2022,nonFPE}$  = Non-Fixed Process Emissions Stringency Factor without adjustment based on biomass fuel use as set out in Table 4.2 for year 2022 that

is set out opposite the industrial activity engaged in at the facility set out in Column 1 and the applicable method set out in Column 2

**NBF<sub>2022</sub>** = Non-biomass fraction for the year 2022, calculated in accordance with Formula 4.2-4

$$NBF_{2022} = 1 - \left( \frac{EI_{biomass,2022}}{EI_{AllFuels,2022}} \right)$$

**Formula 4.2-4**

Where,

**EI<sub>biomass,2022</sub>** = energy input from biomass fuel at the covered facility in the year 2022, expressed in gigajoules (GJ)

**EI<sub>AllFuels,2022</sub>** = total energy input from all fuel, including biomass fuel, at the covered facility in the year 2022, expressed in gigajoules (GJ)

**Table 4.2**

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11
Industrial activity	Applicable Method	SF <sub>2022, nonFPE</sub>	SF <sub>2023, nonFPE</sub>	SF <sub>2024, nonFPE</sub>	SF <sub>2025, nonFPE</sub>	SF <sub>2026, nonFPE</sub>	SF <sub>2027, nonFPE</sub>	SF <sub>2028, nonFPE</sub>	SF <sub>2029, nonFPE</sub>	SF <sub>2030, nonFPE</sub>
Transmitting natural gas <sup>1</sup>	All Methods	0.80	0.776	0.761	0.746	0.731	0.716	0.701	0.686	0.671
Dairy <sup>2</sup>	All Methods	0.80	0.776	0.761	0.746	0.731	0.716	0.701	0.686	0.671
Generating electricity using fossil fuels <sup>3</sup>	Method B	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Method C	0.92	0.896	0.881	0.866	0.851	0.836	0.821	0.806	0.791
All other industrial activities	All Methods	0.92	0.896	0.881	0.866	0.851	0.836	0.821	0.806	0.791

<sup>1</sup> Item 6 of Schedule 2 of the Regulation

<sup>2</sup> Subparagraph vi of Item 39 of Schedule 2 of the Regulation

<sup>3</sup> Item 38 of Schedule 2 of the Regulation

## **5 Partial Year Adjustment in Respect of the First Compliance Period**

### **5.1 Application of Partial Year Adjustment Criteria in Respect of the First Compliance Period**

- (a) This section applies to the owner or operator of a covered facility that received a notice of registration as a registered emitter issued under subsection 64 (2) of the *Greenhouse Gas Pollution Pricing Act (Canada)* by the Minister of National Revenue and the effective date of the notice is after January 1 in the first compliance period, in respect of a registration period, that applies to the facility.

### **5.2 Partial Year Adjustment Method in Respect of the First Compliance Period**

- (a) An owner or operator that meets the criteria in section 5.1 shall apply the following substitutions in calculating the AAELs for the covered facility's first compliance period in respect of a registration period when using methods that are required to be used and such methods that the owner or operator is permitted to use and elects to use as set out in subsections 3.1.1 to 3.1.7 (Methods A through G):
- (1) The amount of each EPS parameter used in the formulas under Methods A to G shall be the amount from the period starting from the effective date of the notice referred to in 5.1 through to December 31 of that year.
  - (2) Calculate the AAEL for applicable Methods A to G using the calculation methods and formulas in Sections 3.1.1 to 3.1.7 substituting the amount of each EPS parameter in those calculations and formulas with the amounts referred to in paragraph (1) above.

## **6 Partial Year Adjustment in Respect of Sites Added to or Removed from a Facility**

### **6.1 Application of Partial Year Adjustment Criteria in Respect of Sites Added to or Removed from a Facility**

- (a) This section applies to the owner or operator of a covered facility that received a notice under subsection 8 (3) of the Regulation setting out an effective date of a change in respect of the composition of sites that constitute the covered facility that is on or after January 1 in a compliance period.

### **6.2 Partial Year Adjustment Method in Respect of Sites Added to or Removed from a Facility**

- (a) An owner or operator that meets the criteria in section 6.1 shall apply the following substitutions in calculating the AAELs for the covered facility in respect of the compliance period in which the effective date of the change set out in the notice under 8 (3) of the Regulation occurs, using all methods that are required to be used and such methods that the owner or operator is permitted to use and elects to use, as set out in subsections 3.1.1 to 3.1.7 (Methods A through G):
- (1) If a site that, before the effective date of the change set out in the notice, did not constitute part of another covered facility is added to the covered facility:
    - (i) No amount of an EPS parameter in respect of the site shall be included in the amount of the EPS parameter used in the formulas under Methods A to G for the portion of the year that occurs before the effective date.
    - (ii) Calculate the AAEL for applicable Methods A to G using the calculation methods and formulas in Sections 3.1.1 to 3.1.7 substituting the amount of the EPS parameter in those calculations and formulas with the amounts referred to in subparagraph (1) (i) above.
  - (2) If a site is removed from the covered facility and is not added to another covered facility:
    - (i) No amount of an EPS parameter in respect of the site shall be included in the EPS parameter amount used in the formulas under Methods A to G for the portion the year that occurs after the effective date.
    - (ii) Calculate the AAEL for applicable Methods A to G using the calculation methods and formulas in Sections 3.1.1 to 3.1.7 substituting the amount of the EPS parameter in those calculations and formulas with the amounts referred to in subparagraph (2) (i) above.

## **7 Request for a Baseline Emissions Intensity (BEI)**

### **7.1 Requirements In Respect of Making a Request Under the Regulation for a Baseline Emissions Intensity**

The following are requirements in relation to a request for a Director's notice to be given under Section 12.1 of the Regulation. These are in addition to what is set out in that section.

- (a) For the purposes of making a request for a BEI in respect of an activity component under Section 12.1 of the Regulation, the owner or operator of the covered facility shall:
  - (1) set out an activity component and an associated EPS parameter in respect of the BEI requested, using activity components in accordance with the definitions in the Reporting Regulation; and
  - (2) calculate the proposed BEI using Formula 7.1-1 only using emissions and EPS parameter data that meet all of the following criteria:
    - (i) 90 per cent or more of the emissions used in the formula are attributable to the activity component at the facility set out in the request, as demonstrated through engineering estimates.
    - (ii) emissions from steam import and use are accounted for in the manner required by the Director.
    - (iii) emissions from electricity generation, including from a cogeneration system, are excluded.
    - (iv) the sum of all emissions associated with all activity components at the facility and all proposed activity components at the facility for each year in respect of the calculation is less than or equal to the verification amount in that year.
    - (v) the emissions and production data are calculated in accordance with the Guideline and the applicable sampling, analysis and measurement is done in accordance with the Guideline.

$$BEI_{D,i,nonFPE} = \sum_y^{y+2} Emission_{i,y} \div \sum_y^{y+2} Production_{i,y}$$

**Formula 7.1-1**

Where,

**i** = the proposed activity component

**y** is the year that is described in 1, 2, 3 or 4,

- 1) that is 3 years prior to the year of the first compliance period if the facility is:
  - (A) one in respect of which subsection 12.1 (2) does not preclude a request being made, and is not one in respect of which a request can be made under subsection 12.1 (3) of the Regulation;
  - (B) one described in paragraph (a) of subsection 12.1 (3) of the Regulation along with the facility component described in that subsection and the change made to the facility is described in paragraph 1 of subsection 1 (4) of the Regulation; or
  - (C) one described in paragraph (c) of subsection 12.1 (3) of the Regulation
- 2) in which the eligible modification is substantially completed if the facility is one described in paragraph (a) of subsection 12.1 (3) of the Regulation along with the activity component described in that subsection and the change made to the facility is described in paragraph 2 or 3 of subsection 1 (4) of the Regulation
- 3) in which the effective date of the change set out in a notice under subsection 8 (3) occurred if the facility is one described in paragraph (b) of subsection 12.1 (3) of the Regulation and the site is one described in paragraph (c) (1) of section 3.1.4 of this Methodology
- 4) that is 3 years prior to the year in which the effective date of the change set out in a notice under subsection 8 (3) occurred if the facility is one described in paragraph (b) of subsection 12.1 (3) of the Regulation and the site is not one described in paragraph (c) (1) of section 3.1.4 of this Methodology

**Emissions<sub>j,y</sub>** = annual emissions that are attributable to the proposed activity component "i" in year "y", reported under the Reporting Regulation and Guideline

**Production<sub>j,y</sub>** = annual amount of the proposed EPS parameter in respect of the proposed activity component "i" in year "y", reported under the Reporting Regulation and Guideline

## Appendix A

Where the GHG ID/GHGRP ID number set out in Column 1 of Table A.1 does not accord with the Company Name and Facility/Site Name set out in Columns 2 and 3, the GHG ID or GHGRP ID and address prevails. This approach recognizes that the information set out in Columns 2 and 3, that is intended to help identify a covered facility, or a site that forms part of the covered facility, may change while the GHG ID/GHGRP ID and address information will generally not change.

**Table A.1**

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
GHG ID /GHGRP ID	Company Name	Facility/Site Name	Facility/Site Address	Facility/Site City or Town	Facility/Site Postal Code
1001	ADM Agri-Industries Company	ADM Agri-Industries Company	5550 Maplewood Drive	Windsor	N9C 0B9
1005	ArcelorMittal Dofasco G.P.	ArcelorMittal Dofasco	1330 Burlington Street East	Hamilton	L8N 3J5
1006	Atlantic Packaging Products Ltd.	111 Progress	111 Progress Avenue	Scarborough	M1P 2Y9
1011	Brampton Brick Limited	Brampton Brick Limited	225 Wanless Drive	Brampton	L7A 1E9
1016	Bunge Canada	Bunge Canada	515 Victoria Avenue North	Hamilton	L8N 3K7
1017	Cabot Canada Ltd.	Cabot Canada Ltd.	800 Tashmoo Avenue	Sarnia	N7T 7N4
1018	CGC Inc.	CGC Hagersville Plant	55 Third Line Road	Hagersville	N0A 1H0
1020	Carmeuse Lime Canada Limited	Beachville Operation	374681 Oxford County Road #6	Ingersoll	N5C 3K5
1021	Carmeuse Lime Canada Limited	Dundas Operations	600 Highway # 5	Dundas	L9H 3S9
1022	Carmeuse Lime Canada Limited	Northern Lime Limited	17 Highway 17 East	Blind River	P0R 1B0



Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
<b>GHG ID /GHGRP ID</b>	<b>Company Name</b>	<b>Facility/Site Name</b>	<b>Facility/Site Address</b>	<b>Facility/Site City or Town</b>	<b>Facility/Site Postal Code</b>
1023	Cascades Canada ULC	Cascades Containerboard Packaging, A Division of Cascades Canada ULC.	300 Marmora Street	Trenton	K8V 5R8
1024	CertainTeed Canada, Inc.	Toronto Board Plant	2424 Lakeshore Road West	Mississauga	L5J 1K4
1025	FCA Canada Inc.	Brampton Assembly Plant	2000 Williams Parkway East	Brampton	L6S 6B3
1026	FCA Canada Inc.	Windsor Assembly Plant	2199 Chrysler Centre Road	Windsor	N9A 4H6
1030	Birla Carbon Canada Ltd.	Birla Carbon Canada Ltd.	755 Parkdale Avenue North	Hamilton	L8H 7N5
1032	Dryden Fibre Canada ULC	Dryden Mill	1 Duke Street	Dryden	P8N 2Z7
1033	Domtar Inc.	Espanola Mill	1 Station Road	Espanola	P5E 1R6
1042	Algoma Steel Inc.	Algoma Steel	105 West Street	Sault Ste. Marie	P6A 7B4
1045	Federal White Cement Ltd.	Woodstock Plant	355151 35th Line	Embro	N0J 1J0
1046	Arauco Canada Limited	Arauco Canada Limited	657 Baseline Road	Sault Ste Marie	P6A 5K6
1047	Ford Motor Company of Canada, Limited	Ford Oakville Assembly Complex	1 The Canadian Road	Oakville	L6J 5C9
1054	Gerdau Ameristeel Corporation	Gerdau Ameristeel Corporation	160 Orion Place	Cambridge	N1T 1R9
1055	Gerdau Ameristeel Corporation	Gerdau Ameristeel Corporation	1 Gerdau Court	Whitby	L1N 5T1
1056	Goldcorp Canada Ltd.	Musselwhite Mine	1 Concession	Kenora District	P7B 6S8
1060	Greenfield Global Inc.	Chatham	275 Bloomfield Road	Chatham	N7M 5J5
1061	Greenfield Global Inc.	Johnstown	141 Commerce Drive	Johnstown	K0E 1T0
1065	Meridian Brick Canada Ltd.	Meridian Brick - Aldershot	1570 Yorkton Court	Aldershot	L7P 5B7

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
GHG ID /GHGRP ID	Company Name	Facility/Site Name	Facility/Site Address	Facility/Site City or Town	Facility/Site Postal Code
1066	Meridian Brick Canada Ltd.	Meridian Brick - Burlington	5155 Dundas Street	Burlington	L7R 3Y2
1068	Hiram Walker & Sons Ltd.	Walkerville	2072 Riverside Drive East	Windsor	N8Y 4S5
1070	Honda Canada Inc.	Honda of Canada Manufacturing	4700 Industrial Parkway	Alliston	L9R 1A2
1074	Imperial Oil	Sarnia Refinery Plant	602 Christina Street South	Sarnia	N7T 7M5
1075	Ingredion Canada Corporation	Cardinal	4040 James Street	Cardinal	K0E 1E0
1076	Ingredion Canada Corporation	London Plant	1100 Green Valley Road	London	N6N 1E3
1079	IGPC Ethanol Inc.	IGPC Ethanol Inc.	89 Progress Drive	Aylmer	N5H 2R9
1080	Interlake Acquisition Corporation Limited	Interlake Acquisition Corporation Limited	45 Merritt Street	St. Catharines	L2T 1J4
1081	INVISTA (Canada) Company	Kingston Site	455 Front Road	Kingston	K7L 4Z6
1082	INVISTA (Canada) Company	IMaitland Site	1400 #2 County Road East	Maitland	K0E 1P0
1083	Irving Consumer Products Limited	Irving Consumer Products Limited	1551 Weston Road	Toronto	M6M 4Y4
1084	Ivaco Rolling Mills 2004 L. P., by its General Partner Heico 2004 Member, Inc.	Ivaco Rolling Mills	1040 County Rd 17 Road	L'Orignal	K0B 1K0
1085	Jungbunzlauer Canada Inc.	Jungbunzlauer Canada Inc.	1555 Elm Street	Port Colborne	L3K 5V5
1086	Labatt Brewing Company Ltd	Labatt Brewing Company Ltd	150 Simcoe Street	London	N6A 4M3
1092	Maple Lodge Farms Ltd	Maple Lodge Farms Ltd	8301 Winston Churchill Boulevard	Brampton	L6Y 0A2

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
<b>GHG ID /GHGRP ID</b>	<b>Company Name</b>	<b>Facility/Site Name</b>	<b>Facility/Site Address</b>	<b>Facility/Site City or Town</b>	<b>Facility/Site Postal Code</b>
1094	New Forest Paper Mills LP	New Forest Paper Mills LP	333 Progress Avenue	Scarborough	M1P 2Z7
1100	NOVA Chemicals Corporation	Corunna Site	785 Petrolia Line	Corunna	N0N 1G0
1101	NOVA Chemicals Corporation	Moore Site	510 Moore Line	Mooretown	N0N 1M0
1102	NOVA Chemicals Corporation	St. Clair River Site	285 Albert Street	Corunna	N0N 1G0
1103	O-I Canada Corp.	Plant #31 Brampton	100 West Drive	Brampton	L6T 2J5
1109	Oxy Vinyls Canada Co.	Niagara PVC Plant	8800 Thorold Townline	Thorold	L2E 6S5
1111	Petro-Canada Lubricants Inc.	Mississauga Lubricants Centre	385 Southdown Road	Mississauga	L5J 2Y3
1113	Plains Midstream Canada	Sarnia Fractionation Plant	1182 Plank Road	Sarnia	N7T 7H9
1118	Redpath Sugar Ltd	Toronto Refinery	95 Queen's Quay East	Toronto	M5E 1A3
1120	Thunder Bay Pulp and Paper Inc.	Resolute Forest Products - Thunder Bay Operations	2001 Neebing Avenue	Thunder Bay	P7E 6S3
1121	Roxul Inc.	Milton Factory	805 Steeles Avenue East	Milton	L9T 5H3
1122	Safety-Kleen Canada Inc.	Oil Recovery Division	300 Woolwich Street South	Breslau	N0B 1M0
1123	Sanofi Pasteur Limited	Sanofi Pasteur Limited	1755 Steeles Ave West	Toronto	M2R 3T4
1126	Sonoco Canada Corporation	Sonoco Brantford	33 Park Avenue	Brantford	N3S 7R9
1131	Strathcona Paper GP Inc.	Strathcona Paper LP	77 County Road 16,	Napanee	K7R 3L2
1132	INEOS Styrolution Canada Ltd.	INEOS Styrolution	872 Tashmoo Avenue	Sarnia	N7T 7H5
1134	Suncor Energy Inc.	St. Clair Ethanol Plant	535 Rokeby Line	Mooretown	N0N 1M0

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
GHG ID /GHGRP ID	Company Name	Facility/Site Name	Facility/Site Address	Facility/Site City or Town	Facility/Site Postal Code
1135	Kap Paper Inc. (previously Produits Forestiers GreenFirst (QC) Inc.)	Kapuskasing Paper Mill (previously Kapuskasing Operations)	1 Government Road	Kapuskasing	P5N 2Y2
1136	Algoma Tubes Inc.	Tenaris Algoma Tubes	547 Wallace Terrace	Sault Ste. Marie	P6C 1L5
1137	Terra International (Canada) Inc.	CF Industries Courtright Nitrogen Complex	161 Bickford Line	Courtright	N0N 1H0
1138	AV Terrace Bay Inc.	AV Terrace Bay	21 Mill Road	Terrace Bay	P0T 2W0
1139	The International Group Inc.	Agincourt Plant	50 Salome Drive	Toronto	M1S 2A8
1140	Toyota Motor Manufacturing Canada Inc.	Toyota Motor Manufacturing Canada Inc. (Cambridge)	1055 Fountain Street North	Cambridge	N3H 5K2
1141	Toyota Motor Manufacturing Canada Inc.	Toyota Motor Manufacturing Canada Inc. (Woodstock)	1717 Dundas Street	Woodstock	N4S 0A4
1147	TransCanada PipeLines Limited	TransCanada Pipeline, Ontario	1644 Veterans Drive	Kenora	P9N 0C1
1148	Stelco Inc.	Hamilton	386 Wilcox Street	Hamilton	L8L 8K5
1149	Stelco Inc.	Lake Erie	2330 Regional Road #3	Haldimand County	N0A 1L0
1157	Glencore Canada Corporation	Kidd Metallurgical Site	10050 Highway 101 East	Timmins	P4N 7K1
1158	Glencore Canada Corporation	Sudbury Integrated Nickel Operations Smelter	2 Longyear Drive	Falconbridge	P0M 1S0
1163	Greenfield Global Inc.	Tiverton	99 Farrell Drive	Tiverton	N0G 2T0
1166	Rain Carbon Canada Inc.	Rain Carbon Canada Inc.	725 Strathearne Avenue North	Hamilton	L8H 5L3

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
GHG ID /GHGRP ID	Company Name	Facility/Site Name	Facility/Site Address	Facility/Site City or Town	Facility/Site Postal Code
1167	Kawartha Ethanol Inc.	Kawartha Ethanol Inc.	6830 Highway 7	Havelock	K0L 1Z0
1168	Vale Canada Limited	Copper Cliff Mining, Smelting and Refining Complex	18 Rink Street	Copper Cliff	P0M 1N0
1171	Real Alloy Canada Ltd.	Real Alloy Mississauga	7496 Torbram Road	Mississauga	L4T 1G9
1172	FCA Canada Inc.	Etobicoke Casting Plant	15 Brown's Line	Toronto	M8W 3S3
1175	Bartek Ingredients Inc.	Plant #1 - Malic Acid and Fumaric Acid Manufacturing	421 Seaman Street	Stoney Creek	L8E 3J4
1184	Roseburg Forest Products Canada Ltd.	Roseburg Forest Products Canada Ltd. (Pembroke MDF)	777 Fibreboard Drive	Pembroke	K8A 6W4
1186	ArcelorMittal Produits Longs Canada s.e.n.c	ArcelorMittal Long Products Canada - Hamilton East	690 Strathearne Avenue North	Hamilton	L8H 7N8
1191	ARLANXEO Canada Inc.	Arlanxeo Butyl	1265 Vidal Street South	Sarnia	N7T 7M2
1193	Evolution Mining Gold Operations Ltd.	Red Lake Operation	15 Eric Radford Way	Balmertown	P0V 1C0
1198	Goldcorp Canada Ltd.	Porcupine Gold Mines	4315 Gold Mine Road	South Porcupine	P0N 1H0
1200	LANXESS Canada Co./Cie	Elmira Facility	25 Erb Street	Elmira	N3B 2J3
1207	Sazerac Distillers of Canada Inc.	Collingwood Distillery	202 MacDonald Road	Collingwood	L9Y 4J2
1219	Goodyear Canada Inc.	Goodyear Napanee	388 Goodyear Road	Napanee	K7R 3L2
1224	Zochem ULC	Zochem	1 Tilbury Court	Brampton	L6T 3T4
1234	Kimberly-Clark Inc.	Kimberly Clark, Huntsville Mill	570 Ravenscliffe Road	Huntsville	P1H 1N52A1
1237	Valbruna ASW Inc.	Valbruna ASW Inc.	42 Centre Street	Welland	L3B 0E5

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
GHG ID /GHGRP ID	Company Name	Facility/Site Name	Facility/Site Address	Facility/Site City or Town	Facility/Site Postal Code
1240	BIOX Canada Limited	BIOX Canada Limited	41 Oliver Street	Hamilton	L8L 4K9
1245	Panolam Industries Ltd.	Panolam Industries Ltd.	61 Domtar Road	Huntsville	P1H 2J7
1251	Genpak, Division of Great Pacific Enterprises LP	Genpak Mississauga	3185 Pepper Mill Court	Mississauga	L5L 4X5
1252	Hartmann Canada Inc.	Hartmann North America	58 Frank Street	Brantford	N3T 5T6
1257	Compass Minerals Canada Corp	Goderich Plant	245 Regent Street	Goderich	N7A 3Y5
1261	Owens Corning Insulating Systems Canada LP	Toronto Plant	3450 McNicoll Avenue	Toronto	M1V 1Z5
1263	Owens Corning Composite Materials Canada LP	Guelph Glass Plant	247 York Road	Guelph	N1H 6P6
1266	Welded Tube of Canada Corp.	Welded Tube (Q&T Plant)	191 Ridge Road	Welland	L3B 5N7
1269	Ferrero Canada Limited	Ferrero	1 Ferrero Boulevard	Brantford	N3V 1G3
1340	Linamar Transportation Inc.	Linamar Gear	32 Independence Place	Guelph	N1K 1H8
1341	Sun-Brite Foods Inc.	Sun-Brite Foods Inc.	1532 Country Road 34	Ruthven	N0P 2G0
1342	Signature Aluminum Canada Inc.	Pickering	1850 Clements Road	Pickering	L1W 3R8
1344	3M Canada Company	3M Brockville 501	60 California Avenue	Brockville	K6V 5W1
1346	Super-Pufft Snacks Corporation	Super-Pufft Snacks Corporation	880 Gana Court	Mississauga	L5S 1N8
1356	Alamos Gold Inc.	Young-Davidson	566 Highway 566, 3 km west of Matachewan	Matachewan	P0K 1M0

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
GHG ID /GHGRP ID	Company Name	Facility/Site Name	Facility/Site Address	Facility/Site City or Town	Facility/Site Postal Code
1368	Cameco Corporation	Port Hope Conversion Facility	1 Eldorado Place	Port Hope	L1A 3A1
1381	Sofina Foods Inc./Aliments Sofina Inc.	Fearmans Pork-Sofina Foods Inc.	821 Appleby Line	Burlington	L7L 4W9
1384	Windsor Salt Ltd.	Windsor Salt Ltd.	30 Prospect Avenue	Windsor	N9C 3G3
1406	Ottawa Fibre LP	CertainTeed Insulation Ottawa	3985 Belgreen Drive West	Ottawa	K1G 3N2
1407	New Gold Inc.	Rainy River Mine	5967 Highway 11/71	Emo	P0W 1E0
1408	3M Canada Company	(London	1840 Oxford Street East	London	N5V 3R6
1409	Cameco Corporation	Blind River Refinery	328 Eldorado Road Northwest	Blind River	P0R 1B0
1410	Impala Canada Ltd.	Impala Canada Ltd.	Highway 527	Thunder Bay	P7B 6T9
1412	Max Aicher (North America) Limited	Max Aicher (North America) Limited	855 Industrial Drive	Hamilton	L8L 0B2
1414	Lake Shore Gold Corp.	Bell Creek Complex	3160 Florence Street	Porcupine	P0N 1C0
1416	McEwen Ontario	McEwen Ontario Black Fox Mine	2839 Highway 101 East	Matheson	P0K 1N0
1417	Covia Canada Ltd.	Nepheline Syenite Operations	260 Unimin Road	Havelock	K0L 1Z0
1418	Agnico Eagle Mines Ltd.	Detour Lake Mine	185, Highway 652	Cochrane	P0L 1C0
1432	Enbridge Gas Inc.	Enbridge Gas Inc.	500 Consumers Road	North York	M2J 1P8
1456	Alamos Gold Inc.	Island Gold Mine	15 Goudreau	Dubreuville	P0S 1B0
1457	Agnico Eagle Mines Ltd.	Macassa Mine.	1350 Government Road West	Kirkland Lake	P2N 3J1
1489	Linamar Corporation	Vehcom Manufacturing	74 Campbell Road	Guelph	N1H 1C1
1501	The Pepsi Bottling Group (Canada), ULC	PepsiCo Beverages Canada	5900 Falbourne Street	Mississauga	L5R 3M2

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>	<b>Column 4</b>	<b>Column 5</b>	<b>Column 6</b>
<b>GHG ID /GHGRP ID</b>	<b>Company Name</b>	<b>Facility/Site Name</b>	<b>Facility/Site Address</b>	<b>Facility/Site City or Town</b>	<b>Facility/Site Postal Code</b>
1505	Canada Bread Company, Ltd.	Bimbo Canada	745 Nebo Road	Hannon	L0R 1P0
1507	3M Canada Company	3M (Perth)	2 Craig Street	Perth	K7H 3E2
1520	Nylene Canada ULC	Nylene Canada ULC	200 McNab Street	Arnprior	K7S 3P2
1527	IMT Standen's GP Inc.	IMT Integrated Facility	530 Manitou Drive	Kitchener	N2C 1L3



## Appendix B

This table sets out the eligibility, of the owner or operator of a covered facility, or a site that forms part of the facility, whose GHG ID is set out in Column 1 of this Table, to use Method B, Method C or TET<sub>y</sub> in a Formula in Method E.

**Table B1**

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>	<b>Column 4</b>
<b>GHG ID</b>	<b>Eligible to use Method B</b>	<b>Eligible to use Method C</b>	<b>Eligible to use TET<sub>y</sub> in Method E</b>
1001	Yes	Yes	Yes
1005	Yes	Yes	Yes
1006	No	No	No
1011	No	No	No
1016	Yes	Yes	Yes
1017	Yes	Yes	Yes
1018	Yes	Yes	Yes
1020	Yes	Yes	Yes
1021	Yes	Yes	Yes
1022	Yes	Yes	Yes
1023	Yes	Yes	Yes
1024	Yes	Yes	Yes
1025	Yes	Yes	Yes
1026	Yes	Yes	Yes
1030	No	No	No
1032	No	No	No
1033	No	No	No
1042	Yes	Yes	Yes
1045	No	No	No
1046	Yes	Yes	Yes
1047	Yes	Yes	Yes
1054	Yes	Yes	Yes
1055	Yes	Yes	Yes
1060	Yes	Yes	Yes
1061	Yes	Yes	Yes
1065	No	No	No

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>	<b>Column 4</b>
<b>GHG ID</b>	<b>Eligible to use Method B</b>	<b>Eligible to use Method C</b>	<b>Eligible to use TET<sub>y</sub> in Method E</b>
1066	No	No	No
1068	No	No	No
1070	Yes	Yes	Yes
1073	No	No	Yes
1075	Yes	Yes	Yes
1076	Yes	Yes	Yes
1079	Yes	Yes	Yes
1080	No	No	No
1081	Yes	Yes	Yes
1082	Yes	Yes	Yes
1083	Yes	Yes	Yes
1084	Yes	Yes	Yes
1085	Yes	Yes	Yes
1086	Yes	Yes	Yes
1092	Yes	Yes	Yes
1094	No	No	No
1100	No	No	Yes
1101	No	No	No
1102	No	No	No
1103	Yes	Yes	Yes
1109	Yes	Yes	Yes
1111	No	No	No
1113	Yes	Yes	Yes
1118	No	No	No
1120	No	No	No
1121	No	No	No
1122	Yes	Yes	Yes
1123	Yes	Yes	Yes
1126	No	No	No
1131	No	No	No
1132	Yes	Yes	Yes
1134	Yes	Yes	Yes
1135	No	No	No

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>	<b>Column 4</b>
<b>GHG ID</b>	<b>Eligible to use Method B</b>	<b>Eligible to use Method C</b>	<b>Eligible to use TET<sub>y</sub> in Method E</b>
1136	Yes	Yes	Yes
1138	No	No	No
1139	Yes	Yes	Yes
1140	Yes	Yes	Yes
1141	Yes	Yes	Yes
1147	No	No	No
1148	Yes	Yes	Yes
1149	Yes	Yes	Yes
1158	Yes	Yes	Yes
1163	Yes	Yes	Yes
1166	Yes	Yes	Yes
1167	Yes	Yes	Yes
1168	No	No	No
1171	Yes	Yes	Yes
1172	Yes	Yes	Yes
1175	Yes	Yes	Yes
1186	Yes	Yes	Yes
1191	Yes	Yes	Yes
1200	Yes	Yes	Yes
1207	No	No	No
1219	Yes	Yes	Yes
1224	Yes	Yes	Yes
1225	Yes	Yes	Yes
1234	No	No	No
1237	Yes	Yes	Yes
1240	Yes	Yes	Yes
1245	Yes	Yes	Yes
1251	Yes	Yes	Yes
1252	No	No	No
1257	Yes	Yes	Yes
1261	Yes	Yes	Yes
1263	Yes	Yes	Yes
1266	Yes	Yes	Yes

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>	<b>Column 4</b>
<b>GHG ID</b>	<b>Eligible to use Method B</b>	<b>Eligible to use Method C</b>	<b>Eligible to use TET<sub>y</sub> in Method E</b>
1269	Yes	Yes	Yes
1340	Yes	Yes	Yes
1341	Yes	Yes	Yes
1342	Yes	Yes	Yes
1344	Yes	Yes	Yes
1346	Yes	Yes	Yes
1356	Yes	Yes	Yes
1368	Yes	Yes	Yes
1381	Yes	Yes	Yes
1384	Yes	Yes	Yes
1406	No	No	No
1407	Yes	Yes	Yes
1408	Yes	Yes	Yes
1409	Yes	Yes	Yes
1410	Yes	Yes	Yes
1412	Yes	Yes	Yes
1414	Yes	Yes	Yes
1416	Yes	Yes	Yes
1417	No	No	No
1418	No	No	No
1432	No	No	No
1456	Yes	Yes	Yes
1457	Yes	Yes	Yes
1489	Yes	Yes	Yes
1505	Yes	Yes	Yes
1507	Yes	Yes	Yes
1157	Yes	Yes	Yes
1184	Yes	Yes	Yes
1520	Yes	Yes	Yes
1527	Yes	Yes	Yes
1501	Yes	Yes	Yes