

# FIRST FULL NATIONAL REPORTS OF THE MINAMATA CONVENTION ON MERCURY 2021



\* Question 8.5 amended by Chile on 24 June 2022

## REPORTING PERIOD:

16 August 2017 to 31 December 2020

### ▼ INFORMATION ON THE PARTY

#### 1. Information on the party

**Name of party**

Chile

**Date on which its instrument of ratification, accession, approval or acceptance was deposited**

27 August 2018

**Date of entry into force of the Convention for the party**

25 November 2018

#### 2. Information on the national focal point

**Full name of the institution**

Ministry of Environment

**Title of National Focal Point**

Mr.Cristian Brito Martínez

**Name of National Focal Point**

Cristian Brito

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#### 3. Information about the contact officer submitting the reporting format if different from the above

**Focal Point is submitting the national report**

- ☒ Information is submitted by the national focal point
- ☐ Information is submitted through the national focal point by the contact officer

### ▼ ART. 3: MERCURY SUPPLY SOURCES AND TRADE

#### 3.1. Does the party have any primary mercury mines that were operating within its territory at the date of entry into force of the Convention for the party?

- ☐ Yes
- ☒ No

Additional information on this question if needed

{Empty}

**3.2. Does the party have any primary mercury mines that are now in operation that were not in operation at the time of entry into force of the Convention for the party?**

☐ Yes

☒ No

**3.3. Has the party endeavoured to identify individual stocks of mercury or mercury compounds exceeding 50 metric tons and sources of mercury supply generating stocks exceeding 10 metric tons per year that are located within its territory?**

☒ Yes

☐ No

#### ba34\_subsection

\*If the party answered Yes to Question 3 above:

**i. Please attach the results of your endeavor or indicate where it is available on the internet, unless unchanged from a previous reporting round.**

<https://www.mercuryconvention.org/en/parties/chl>

**i. Please attach the results of your endeavor or indicate where it is available on the internet, unless unchanged from a previous reporting round.**

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**ii. Supplemental: Please provide any related information, for example on the use or disposal of mercury from such stocks and sources.**

Chile does not have individual stocks of mercury or mercury compounds exceeding 50 metric tons and sources of mercury supply generating stocks exceeding 10 metric tons per year

**3.4. Does the party have excess mercury available from the decommissioning of chlor-alkali facilities?**

☐ Yes

☒ No

**3.5. \*Has the party received consent, or relied on a general notification of consent, in accordance with article 3, including any required certification from importing non-parties, for all exports of mercury from the party's territory in the reporting period?**

☐ Yes, exports to parties

☐ Yes, exports to non-parties

☒ No

Additional information if needed

{Empty}

**3.6. Has the party allowed the import of mercury from a non-party?**

☒ No

☐ Yes

☐ The importing party has relied on paragraph 7 of article 3

#### Part E – Additional comments on the article in free text if the party chooses to do so

Chile has made significant efforts to eliminate mercury and mercury-added products from its territory. Since 2010, Chile has implemented the national mercury-free hospital program. The one that has allowed to reduce the use of amalgams and medical devices with mercury.

#### ▼ ART. 4: MERCURY-ADDED PRODUCTS

**4.1. Has the party taken any appropriate measures to not allow the manufacture, import or export of mercury-added products listed in Part I of Annex A of the Convention after the phase-out date specified for those products?**

- ☒ Yes
- ☐ No
- ☐ Yes (implementing paragraph 2 of article 4)

**If yes, please provide information on the measures.**

Chile has implemented regulations, plans and programs that together have made it possible to discourage the use of products with added mercury and improve knowledge about the risks that these products can cause to the environment and human's health.

**4.3. Has the party taken two or more measures for the mercury-added products listed in Part II of Annex A in accordance with the provisions set out therein?**

- ☒ Yes
- ☐ No

**If yes, please provide information on the measures.**

Chile has significantly reduced the use of dental amalgams, through the implementation by the Ministry of Health of programs such as "mercury-free hospitals" and the "national health strategy." For more information please visit: <https://www.paho.org/hq/dmdocuments/2015/amalgama-dental-chile-e-tagle.pdf>

**4.4. Has the party taken measures to prevent the incorporation into assembled products of mercury-added products whose manufacture, import and export are not allowed under article 4?**

- ☒ Yes
- ☐ No

**If yes, please provide information on the measures.**

Chile does not manufacture products with added mercury. In addition, to promote the use of mercury-free products, technical guides have been developed, workshops and trainings have been implemented. All these actions are aimed at making people aware of the risks that products with added mercury can cause to health and the environment. Additionally, the use of products such as thermometers, light bulbs, batteries, etc. has been promoted. they do not have added mercury. For more information please visit: [https://www.mercuryconvention.org/sites/default/files/documents/submission\\_from\\_government/Products\\_added\\_Mercury\\_ME\\_Chile\\_2020.pdf](https://www.mercuryconvention.org/sites/default/files/documents/submission_from_government/Products_added_Mercury_ME_Chile_2020.pdf)

**4.5. Has the party discouraged the manufacture and the distribution in commerce of mercury-added products not covered by any known use in accordance with article 4, paragraph 6?**

- ☒ Yes
- ☐ No

**If yes, please provide information on the measures.**

Chile does not manufacture products with added mercury. In addition, to promote the use of mercury-free products, technical guides have been developed, workshops and trainings have been implemented. All these actions are aimed at making people aware of the risks that products with added mercury can cause to health and the environment. Additionally, the use of products such as thermometers, light bulbs, batteries, etc. has been promoted. they do not have added mercury. For more information please visit: [https://www.mercuryconvention.org/sites/default/files/documents/submission\\_from\\_government/Products\\_added\\_Mercury\\_ME\\_Chile\\_2020.pdf](https://www.mercuryconvention.org/sites/default/files/documents/submission_from_government/Products_added_Mercury_ME_Chile_2020.pdf)

**Part E – Additional comments on the article in free text if the party chooses to do so**

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**▼ ART. 5: MANUFACTURING PROCESSES IN WHICH MERCURY OR MERCURY COMPOUNDS ARE USED**

**5.1. Are there facilities within the territory of the party that use mercury or mercury compounds for the processes listed in Annex B of the Minamata Convention in accordance with paragraph 5 of article 5 of the Convention?**

- ☐ Yes
- ☒ No
- ☐ I do not know

**5.2. Are measures in place to not allow the use of mercury or mercury compounds in manufacturing processes listed in Part I of Annex B after the phase-out date specified in that Annex for the individual process?**

**CHLOR-ALKALI PRODUCTION**

- ☐ Yes
- ☐ No
- ☒ Not applicable (do not have these facilities)

**ACETALDEHYDE PRODUCTION IN WHICH MERCURY OR MERCURY COMPOUNDS ARE USED AS A CATALYST**

- ☐ Yes
- ☐ No
- ☒ Not applicable (do not have these facilities)

**5.3. Are measures in place to restrict the use of mercury or mercury compounds in the processes listed in Part II of Annex B in accordance with the provisions set out therein?**

**VINYL CHLORIDE MONOMER PRODUCTION**

- ☐ Yes
- ☐ No
- ☒ Not applicable (do not have these facilities)

**SODIUM OR POTASSIUM METHYLATE OR ETHYLATE**

- ☐ Yes
- ☐ No
- ☒ Not applicable (do not have these facilities)

**PRODUCTION OF POLYURETHANE USING MERCURY-CONTAINING CATALYSTS**

- ☐ Yes
- ☐ No
- ☒ Not applicable (do not have these facilities)

**5.4. Is there any use of mercury or mercury compounds in a facility using the manufacturing processes listed in Annex B that did not exist prior to the date of entry into force of the Convention for the party?**

- ☐ Yes
- ☒ No

**5.5. Is there any facility that has been developed using any other manufacturing process in which mercury or mercury compounds are intentionally used that did not exist prior to the date of entry into force of the Convention?**

- ☐ Yes
- ☒ No



## Part E – Additional comments on the article in free text if the party chooses to do so

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### ▼ ART. 7: ARTISANAL AND SMALL-SCALE GOLD MINING

#### 7.1. Have steps been taken to reduce, and where feasible eliminate, the use of mercury and mercury compounds in, and the emissions and releases to the environment of mercury from, artisanal and small-scale gold mining and processing subject to article 7 within your territory?

- ☒ Yes
- ☐ No
- ☐ There is no artisanal and small-scale gold mining and processing subject to article 7 in which mercury amalgamation is used in the territory

If yes, please provide information on the steps.

ASGM is less than insignificant in Chile. Despite this, the Ministry of Mining has financed the implementation of gravimetric concentration plants in artisanal mining sites, to replace the use of liquid mercury in the gold amalgam process by mercury-free mechanical processes. For more information visit: <https://www.minmineria.cl/con-ceremonia-de-primera-piedra-se-da-el-vamos-a-la-futura-planta-de-procesamiento-de-oro-de-la-higuera/>

#### 7.2. Has the party determined and notified the secretariat that artisanal and small-scale gold mining and processing within its territory is more than insignificant?

- ☐ Yes
- ☒ No

## Part E – Additional comments on the article in free text if the party chooses to do so

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### ▼ ART. 8: EMISSIONS

#### 8.1. Identify any Annex D source categories for which there are new sources of emissions of mercury or mercury compounds as defined in paragraph 2 (c) of article 8.

For each of those source categories describe the measures in place, including the effectiveness of such measures, to implement the requirements of paragraph 4 of article 8.

- ☐ Coal-fired power plants
- ☐ Coal-fired industrial boilers
- ☐ Smelting and roasting processes used in the production of non-ferrous metals
- ☐ Waste incineration facilities
- ☐ Cement clinker production facilities

Has the party required the use of best available techniques or best environmental practices (BAT/BEP) to control and where feasible reduce emissions for new sources no later than 5 years after the date of entry into force of the Convention for the party?

- ☐ Yes
- ☒ No

Please explain

In Chile, no projects, facilities or factories have been built for which there are new sources of mercury emissions or mercury compounds

Attach relevant documentation

{Empty}

#### 8.2. Identify any Annex D source categories for which there are existing sources of emissions of mercury or mercury compounds as defined in paragraph 2 (e) of article 8.

For each of those source categories, select and provide details on the measures implemented under paragraph 5 of article 8 and explain the progress that these applied measures have achieved in reducing emissions over time in your territory:

▼ COAL-FIRED POWER PLANTS

- ☒ A quantified goal for controlling and, where feasible, reducing emissions from relevant sources
- ☒ Emission limit values for controlling and, where feasible, reducing emissions from relevant sources
- ☒ Use of BAT/BEP to control emissions from relevant sources
- ☒ Multi-pollutant control strategy that would deliver co-benefits for control of mercury emissions
- ☐ Alternative measures to reduce emissions from relevant sources

**Measures**

{Empty}

**Progress**

{Empty}

▼ COAL-FIRED INDUSTRIAL BOILERS

- ☐ A quantified goal for controlling and, where feasible, reducing emissions from relevant sources
- ☐ Emission limit values for controlling and, where feasible, reducing emissions from relevant sources
- ☐ Use of BAT/BEP to control emissions from relevant sources
- ☐ Multi-pollutant control strategy that would deliver co-benefits for control of mercury emissions
- ☐ Alternative measures to reduce emissions from relevant sources

**Measures**

{Empty}

**Progress**

{Empty}

▼ SMELTING AND ROASTING PROCESSES USED IN THE PRODUCTION OF NON-FERROUS METALS

- ☒ A quantified goal for controlling and, where feasible, reducing emissions from relevant sources
- ☒ Emission limit values for controlling and, where feasible, reducing emissions from relevant sources
- ☒ Use of BAT/BEP to control emissions from relevant sources
- ☒ Multi-pollutant control strategy that would deliver co-benefits for control of mercury emissions
- ☐ Alternative measures to reduce emissions from relevant sources

**Measures**

{Empty}

**Progress**

{Empty}

▼ WASTE INCINERATION FACILITIES

- ☐ A quantified goal for controlling and, where feasible, reducing emissions from relevant sources
- ☐ Emission limit values for controlling and, where feasible, reducing emissions from relevant sources
- ☐ Use of BAT/BEP to control emissions from relevant sources
- ☐ Multi-pollutant control strategy that would deliver co-benefits for control of mercury emissions
- ☐ Alternative measures to reduce emissions from relevant sources

**Measures**

{Empty}

**Progress**

{Empty}

**▼ CEMENT CLINKER PRODUCTION FACILITIES**

- ☒ A quantified goal for controlling and, where feasible, reducing emissions from relevant sources
- ☒ Emission limit values for controlling and, where feasible, reducing emissions from relevant sources
- ☒ Use of BAT/BEP to control emissions from relevant sources
- ☒ Multi-pollutant control strategy that would deliver co-benefits for control of mercury emissions
- ☐ Alternative measures to reduce emissions from relevant sources

**Measures**

{Empty}

**Progress**

{Empty}

Have the measures for existing sources under paragraph 5 of article 8 been implemented no later than 10 years after the date of entry into force of the Convention for the party?

- ☐ Yes
- ☒ No

**Please explain**

Chile has the following regulations that regulate mercury emissions into the atmosphere:

- 1) DS-13/2012 for thermoelectric plants with an emission limit for mercury of 0.1 mg/Nm<sup>3</sup> (<https://www.bcn.cl/leychile/navegar?idNorma=1026808>).
- 2) DS-28/2013 for copper smelters with an emission limit for mercury of 0.1 mg/Nm<sup>3</sup> (<https://www.bcn.cl/leychile/navegar?idNorma=1057059>), where mercury is a regulated element
- 3) DS-29/2013 for incineration and co-incineration with an emission limit for mercury of 0.1 mg/Nm<sup>3</sup> (<https://www.bcn.cl/leychile/navegar?idNorma=265301>). Cement production facilities are regulated under this standard.

**8.3. Has the party prepared an inventory of emissions from relevant sources within 5 years of entry into force of the Convention for it?**

- ☒ Yes
- ☐ No
- ☐ Have not been a party for 5 years

**If yes, when was the inventory last updated?**

Sun, 12/31/2017 - 00:00

**Please indicate where this inventory is available**

<https://www.mercuryconvention.org/en/parties/minamata-initial-assessments>

**Attach**

{Empty}

**8.4. Has the party chosen to establish criteria to identify relevant sources covered within a source category?**

- ☒ Yes
- ☐ No

If yes, please explain how the criteria for any category include at least 75 percent of the emissions from that category and explain how the party took into account guidance adopted by the Conference of the Parties.

This information can be found in the Minamata Initial Assessment and the releases inventory of Chile. Available at: <https://www.mercuryconvention.org/en/parties/minamata-initial-assessments>

**8.5. Has the party chosen to prepare a national plan setting out the measures to be taken to control emissions from relevant sources and its expected targets, goals and outcomes?**

- ☒ Yes  
☐ No

If yes, has the party submitted its national plan to the Conference of the Parties under this article no later than 4 years after the date of entry into force of the Convention for the party?

- ☐ Yes  
☒ No

**Part E – Additional comments on the article in free text if the party chooses to do so**

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▼ ART. 9: RELEASES

**9.1. Are there, within the party's territory, relevant sources of releases as defined in paragraph 2 (b) of article 9?**

- ☐ Yes  
☒ No  
☐ I do not know

**9.2. Has the party established an inventory of releases from relevant sources within 5 years of entry into force of the convention for it?**

- ☐ Yes  
☒ Relevant sources do not exist in the territory  
☐ Have not been a party for 5 years  
☐ No

**Part E – Additional comments on the article in free text if the party chooses to do so**

{Empty}

▼ ART. 10: ENVIRONMENTALLY SOUND INTERIM STORAGE OF MERCURY, OTHER THAN WASTE MERCURY

**10.1. Has the party taken measures to ensure that the interim storage of non-waste mercury and mercury compounds intended for a use allowed to a party under the Convention is undertaken in an environmentally sound manner?**

- ☒ Yes  
☐ No  
☐ I do not know

**Please indicate the measures taken to ensure that such interim storage is undertaken in an environmentally sound manner and the effectiveness of those measures.**

Chile has the regulation DS-43/2016 that establishes safety conditions for the storage of dangerous substances such as mercury and products with added mercury (<https://www.bcn.cl/leychile/navegar?idNorma=1088802> ). In order to prevent environmental and human health impacts.

**Part E – Additional comments on the article in free text if the party chooses to do so**

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▼ ART. 11: MERCURY WASTES

**11.1. Have measures outlined in article 11, paragraph 3, been implemented for the party's mercury waste?**

- ☒ Yes  
☐ No

**Please describe the measures implemented pursuant to paragraph 3, and please also describe the effectiveness of those measures.**

Chile has several regulations that mandate the environmentally sound management of waste, such as: i) Extended Producer Responsibility Law (<https://economiacircular.mma.gob.cl/ley-rep/>), ii) regulations for the management of hazardous waste (<https://www.bcn.cl/leychile/navegar?idNorma=226458>), iii) mining safety regulation (<https://www.bcn.cl/leychile/navegar?idNorma=221064>)

**11.2. Are there facilities for final disposal of waste consisting of mercury or mercury compounds in the party's territory?**

- ☒ Yes  
☐ No  
☐ I do not know

**If yes, if the information is available, how much waste consisting of mercury or mercury compounds has been subjected to final disposal under the reporting period? Please specify the method of the final disposal operation/operations.**

At present, no data available

**Part E – Additional comments on the article in free text if the party chooses to do so**

{Empty}

**▼ ART. 12: CONTAMINATED SITES**

**12.1. Has the party endeavoured to develop strategies for identifying and assessing sites contaminated by mercury or mercury compounds in its territory?**

- ☒ Yes  
☐ No

**Please elaborate**

Chile has a methodological guide for the management of contaminated sites and a national inventory of sites with the potential presence of contaminants. Every year, sites with the potential presence of contaminants are studied, where mercury is one of the metals that are analyzed.

**Part E – Additional comments on the article in free text if the party chooses to do so**

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**▼ ART. 13: FINANCIAL RESOURCES AND MECHANISM**

**13.1. Has the party undertaken to provide, within its capabilities, resources in respect of those national activities that are intended to implement the Convention in accordance with its national policies, priorities, plans and programmes?**

- ☒ Yes  
☐ No

**Please specify**

Chile since 2013 has allocated financial resources for the implementation of the Minamata Convention. These resources have made it possible to implement awareness workshops, develop technical guides, evaluate contaminated sites, carry out studies on mercury risks, etc.

**Please provide comments, if any.**

{Empty}

**13.2. Supplemental: Has the party, within its capabilities, contributed to the mechanism referred to in paragraph 5 of article 13?**

☐ Yes

☒ No

**Please specify**

no

**Please provide comments, if any.**

no

**13.3. Supplemental: Has the party provided financial resources to assist developing-country parties and/or parties with economies in transition in the implementation of the Convention through other bilateral, regional and multilateral sources or channels?**

☐ Yes

☒ No

**Please specify**

no

**Please provide comments, if any.**

no

**Part E – Additional comments on the article in free text if the party chooses to do so**

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▼ **ART. 14: CAPACITY-BUILDING, TECHNICAL ASSISTANCE AND TECHNOLOGY TRANSFER**

**14.1. Has the party cooperated to provide capacity-building or technical assistance, pursuant to article 14, to another party to the Convention?**

☒ Yes

☐ No

**Please specify**

Chile has provided capacity-building and technical assistance on mercury risks and control measures to Ecuador, Peru, Indonesia, Papua New Guinea, China, Russia and Viet Nam, through an international workshop on mercury risks held in 2019

**14.2. Supplemental: Has the party received capacity-building or technical assistance pursuant to article 14?**

☒ Yes

☐ No

**Please specify**

Chile have received capacity-building from Canada

**Please provide comments, if any.**

{Empty}

**14.3. Has the party promoted and facilitated the development, transfer and diffusion of and access to, up-to-date environmentally sound alternative technologies?**

☒ Yes

☐ No

☐ Other

**Please specify**

Chile developed a technical guide "Products with added mercury and risks for the environment and health" and their alternatives. For more information please visit <https://www.mercuryconvention.org/en/resources/information-exchange>

## Part E – Additional comments on the article in free text if the party chooses to do so

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### ▼ ART. 16: HEALTH ASPECTS

#### 16.1. Have measures been taken to provide information to the public on exposure to mercury in accordance with paragraph 1 of article 16?

- ☒ Yes  
☐ No

**Supplemental: If yes, describe the measures that have been taken.**

Chile has held workshops with civil society and industry on the risks of mercury to health and the environment and the risk prevention measures that must be implemented. Technical guides have been written on the management of mercury-added products such as thermometers and other medical devices. For example, in 2019 a face-to-face workshop was held with the attendance of more than 100 representatives from government, industry and universities. Since 2020, 4 online workshops have been held where issues related to mercury and health have been discussed.

#### 16.2. Have any other measures been taken to protect human health in accordance with article 16?

- ☒ Yes  
☐ No

**Supplemental: If yes, describe the measures that have been taken.**

Since 2010, Chile has implemented the national mercury-free hospital program. The one that has allowed to reduce the use of amalgams and medical devices with mercury.

## Part E – Additional comments on the article in free text if the party chooses to do so

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### ▼ ART. 17: INFORMATION EXCHANGE

#### 17.1. Has the party facilitated the exchange of information referred to in article 17, paragraph 1?

- ☒ Yes  
☐ No

**Please provide more information, if any**

Chile has shared with the Secretariat of the Minamata Convention and other countries. The guide "Products with added mercury and risks for the environment and health". The one prepared in 2019 by Cristian Brito from the Ministry of the Environment of Chile.

For more information, see the link: <https://www.mercuryconvention.org/en/resources/information-exchange>

## Part E – Additional comments on the article in free text if the party chooses to do so

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### ▼ ART. 18: PUBLIC INFORMATION, AWARENESS AND EDUCATION

#### 18.1. Have measures been taken to promote and facilitate the provision to the public of the kinds of information listed in article 18, paragraph 1?

- ☒ Yes  
☐ No

**If yes, please indicate the measures that have been taken and the effectiveness of those measures**

Chile has implemented several activities to provide information to civil society on mercury risks and control measures. For example, in 2017 a workshop was held where the results of the national inventory of mercury releases and the policies implemented to control

mercury risks including mercury compounds. In 2019, a national and international workshop on mercury-added products and mercury risk management was held. As a result of all this work, the guide "Products with added mercury and risks for the environment and health" was published.

In 2020 and 2021, online webinars were held on the effects of mercury on aquatic ecosystems and marine mammals.

### Part E – Additional comments on the article in free text if the party chooses to do so

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#### ▼ ART. 19: RESEARCH, DEVELOPMENT AND MONITORING

##### 19.1. Has the party undertaken any research, development and monitoring in accordance with paragraph 1 of article 19?

☒ Yes

☐ No

##### If yes, please describe these actions

Chile supports several scientific researches on the mercury impact on the environment. Some of these researches correspond to the determination of methylmercury in Patagonia mammals, monitoring of mercury in marine ecosystems (results online: <https://www.directemar.cl/directemar/intereses-maritimos/poal-programa-de-observacion-of-the-coastal-environment-program-of-observation-of-the-coastal-environment-poal>). In addition, researches have been conducted to determine the presence of mercury in urban and rural soils (<https://sinia.mma.gob.cl>).

### Part E – Additional comments on the article in free text if the party chooses to do so

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#### ▼ COMMENTS

##### Part C: Comments regarding possible challenges in meeting the objectives of the Convention (Art. 21, para. 1)

We consider that the main challenge is the financing of activities that aim to prevent the use of mercury or to replace it with other technologies. Current resources are not enough to implement adequate and effective management programs in all countries that have ratified the convention and that need resources.

#### ▼ SUPPLEMENTAL – ADDITIONAL COMMENTS

##### Supplemental: Part D: Comments regarding the reporting format and possible improvements, if any

The delivery of means of verification should be improved to ensure that what is reported accurately reflects what is happening in practice