# EU Registry on Industrial Sites – Post-Submission Review

**Manual of Procedure** 

Version 3.1 - 18/05/2021







European Environment Agency

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# Acknowledgments

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# **Version control**

Version number	Date	Description
0.1	March 2018	First draft for EEA
0.2	May 2018	Second draft for EEA, integrating EEA comments
0.3	May 2018	Third draft for EEA, integrating comments from internal ETC review
0.4	August 2018	Fourth draft for EEA, integrating the results of the post- submission review of reports submitted during the testing phase.
1	October 2018	Final draft for publication
1.1	March 2019	Revised draft for publication, integrating new checks as proposed through internal ETC/EEA process
1.2	April 2019	Revised after comments from ETC/EEA
1.3	April 2019	Revised after second round of comments from ETC/EEA
1.4	September 2019	Revised with updated procedures and information on the specific and transitional checks. This is the first stable version and the first one used for post-submission checks at all.
2.0	January 2020	The maximum distances used for check C3.2 have been revised to reduce the occurrence of false positives. These new distances will be used during post- submission checks as of 1 January 2020.
3.0	April 2021	Major revision of the temporal checks in relation to the first application of these on 2019 reporting year data. Added new

		specific checks C3.10 and C3.11 related to permit actions. Deactivated check C1.6, C3.6 and C3.8. Due to automatization of several of the post-submission checks, the need for prioritisation of entities to check is no longer present and is removed from the manual.
3.1	May 2021	The thresholds applied under checks C.2.2, C2.3 and C2.4 are added to the description.

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# 1 Introduction

The EU Registry on Industrial Sites (hereafter the EU Registry), represents a new reporting stream that facilitates the annual reporting to EEA of administrative and identification data pertaining to sites and facilities defined under the European Pollutant Release and Transfer Register Regulation 2006<sup>1</sup> and installations, large combustion plants (LCPs) or waste incinerators covered under the Industrial Emissions Directive 2010<sup>2</sup>. The purpose of this manual is to detail the logic and proposed implementation of a range of post-submission quality assurance/quality control (QA/QC) checks, which will be performed by expert reviewers on successfully reported data. These checks go beyond the automated QA/QC checks already within the central data repository (CDR), the reporting platform used for the EU Registry. The logic behind those automated checks is discussed within the EU Registry Quality Assurance Logic document<sup>3</sup>. This manual builds upon that document and references the data model as defined in the streamlined view of the EU Registry. This document is likely to be substantially amended over time as assessments of submissions become available through reporting, in turn allowing the identification of potential additional aspects where further post-submission checks need to be implemented.

The checks proposed within this document can be split into three groups:

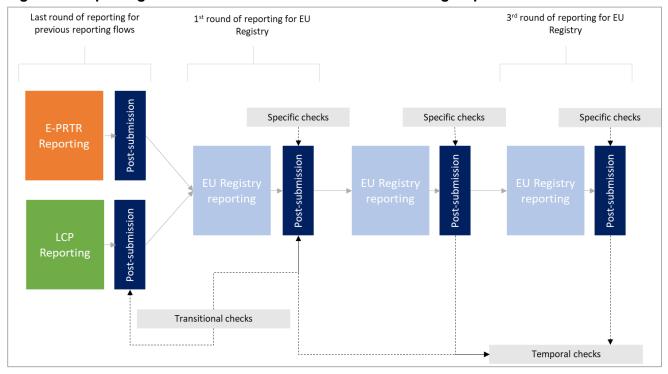
- Transitional checks It is important to recognise that the data reported under the EU Registry was previously reported under two other data flows, E-PRTR reporting and LCP reporting. The first reporting round of the EU Registry, i.e., the 2017 reporting year, therefore represents a transition from these separate reporting flows, towards integrated administrative reporting in one data flow. This requires a series of checks to evaluate whether reporting countries have correctly managed this transition and are reporting the appropriate number of industrial entities.
- 2. **Temporal checks** These checks look holistically across a number of reporting years to determine whether certain aspects of reporting are being adhered to, e.g. analysing the frequency of changes in certain attributes or patterns in reporting. These checks will only be possible when there is more than one reporting year to analyse.
- 3. **Specific checks** These checks analyse specific aspects of reporting to determine whether they have been reported correctly. Unlike temporal checks, these checks can be performed for each reporting round without the need to also analyse related data reported in previous reporting rounds. Historical data will be transferred into the database in the future, but this can only happen after the first reporting year once Inspire IDs have been assigned to existing facilities and installation parts.

Checks within each group are systematically detailed in the sections below. Figure 1 below helps to illustrate the role each check group has in the reporting process.

<sup>&</sup>lt;sup>1</sup> Regulation (EC) No 166/2006, European Pollutant Release and Transfer Register, Available at: <u>http://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX:32006R0166</u>

<sup>&</sup>lt;sup>2</sup> Directive 2010/75/EU, Industrial Emission Directive, Available at: <u>https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32010L0075&from=EN</u>

<sup>&</sup>lt;sup>3</sup> Documents and other materials (e.g. schema documents) referenced in this manual can be found on the EU Registry website - <u>https://cdr.eionet.europa.eu/help/euregistry</u>



## Figure 1 - Reporting flow over time and the role of each check group.

For the first round of reporting to the EU Registry the focus is primarily on 'transitional' checks and on 'specific' checks that will help refine the future design and optimisation of the automated checks presented in the EU Registry QA/QC Logic document which are integrated into the Central Data Repository (CDR). Future reporting rounds for later reporting years may incorporate more 'temporal' checks as further data becomes available. The findings of each check will be communicated to the reporting countries via a findings log. In some select cases, it may be useful also to facilitate a bilateral discussion on issues.

The submission process includes a series of automated quality assurance checks in the central data repository (CDR). These automated checks are detailed extensively in the EU Registry's Quality Assurance Logic document. Each submission released in the CDR also contains metadata regarding the checks, which have been flagged in respect to warning or information messages. This metadata can be consolidated allowing a holistic view of what checks have been consistently flagged across submissions. This can then be used either as prioritisation criteria, to develop further specific post-submission checks, or to inform the refinement of the automated checks.

Historical data, i.e. data from E-PRTR/LCP reporting from 2016 and older, will be transferred into the EU-Registry after the first reporting year. This historical data set will not be open to re-submissions and is hence locked for the future. Administrative and thematic data from 2017 and onwards may be re-submitted to the EU-Registry. The EU-Registry relies on consistency between submissions with respect to data that identifies entities and the relation between them. When re-submitting data for a year prior to the latest reported data, consistency with later years must be ensured (see Check 3.9).

Through previous notifications reporters have been approached to provide information needed to map historical E-PRTR and LCP data into the new databases created for the EU Registry and Thematic data flows. This mapping information has been evaluated in a separate post-submission review process and feedback has been send to countries in several rounds. The 2021 post-submission review will constitute a last review of the mapping information provided to ensure the highest possible degree of transition of historical data into the EU Registry.

# 2 Transitional checks

These checks will be performed in the first round of reporting for the EU Registry, i.e., on 2017 reporting year data, and will help determine how successfully reporting countries have transitioned from the previous reporting flows. These checks, therefore, require access to the data reported in the final reporting rounds (submitted in March 2019) of the E-PRTR and LCP data flows. The following checks are proposed:

## C1.1 – Polluters transition

## **Rationale:**

Generally, it is important that all entities from E-PRTR and LCP reporting are transferred to the EU-Registry, and in particular those with the highest levels of emissions.

## Procedure:

The 2017 EU Registry reporting requires reporting of all currently functioning E-PRTR facilities (even those with releases and transfers below the reporting threshold). Most of these facilities will have been reported in previous reporting years and will therefore have previously had a NationalID assigned under the E-PRTR reporting (the NationalID was the key identifier under the E-PRTR dataflow). Reporting countries have been asked to provide the NationalID for each of the facility InspireIDs in the 2017 EU Registry report through the "Mapping of historical E-PRTR data". Similarly, the reporting countries have been asked to provide the PlantID for each ProductionInstallationPart InspireID in the 2017 EU Registry.

The mapping of E-PRTR and LCP entities will be evaluated against the *latest submission* of the EU Registry to ensure that all NationalIDs and PlantIDs under the E-PRTR and LCPs databases, respectively, are carried over to the EU-Registry. This evaluation has already been performed in 2020, but it is needed to ensure that latest re-submissions, and the few new submissions, do not introduce new findings. Findings that have previously been flagged in this process and marked as "Data confirmed to be correct" by the reporting country through the Findings log will not be flagged again.

## Follow up action:

If any E-PRTR facilities (NationalIDs) or LCP plants (PlantIDs) are not found within the EU Registry, this will be flagged to reporting countries via the findings log.

## C1.2 – Polluters transition data comparison

## **Rationale:**

Generally, it is important that the information on all polluters from E-PRTR and LCP reporting is correctly transferred to the EU-Registry.

## **Procedure:**

This check will build upon Check 1.1, which maps the previous databases of E-PRTR and LCP entities to the EU-Registry. This check will compare aspects like address, naming, coordinates and, for E-PRTR facilities, activity.

The check considers fours fields of information:

- C1.2a Annex I Activity (E-PRTR facility only)
- C1.2b Name of E-PRTR facility/ LCP plant
- C1.2c Address of E-PRTR facility/ LCP plant
- C1.2d Coordinate comparison of E-PRTR facility/ LCP plant

The name and address comparison is made by calculating the "edit distance" relative to the length of the name/address.<sup>4</sup> For postal codes any differences in numbering are flagged. Certain thresholds are established for unacceptable distances, differences in names and addresses between the EU-Registry and E-PRTR and LCP dataflows. These are described in the findings log.

<sup>&</sup>lt;sup>4</sup> The edit distance quantifies how dissimilar two names or addresses are to one another by counting the minimum number of operations required to transform one name /address into the other.

## Follow up action:

If discrepancies, which may impact future reporting, are found between similar reporting aspects, these will be flagged to reporting countries via the findings log.

## C1.3 – First time reporting E-PRTR Facilities

## **Rationale:**

Under the previous E-PRTR reporting, reporters did not generally report facilities which had releases below the Annex II thresholds. Under the EU Registry the requirement to report all facilities above the Annex I of the E-PRTR Regulation (No. 166/2006) activity thresholds, even if the releases and transfers are below the relevant reporting thresholds in Annex II, is being implemented more stringently. Therefore, a facility must be reported to the EU Registry if it carries out a relevant activity as defined in Annex I of the regulations, even if the emissions are below the thresholds in Annex II. This means the first year of reporting to the EU Registry (submitted in June 2019) may well include a number of E-PRTR facilities that have not featured in previous (submitted in March 2019) E-PRTR reporting. It is important to establish the extent to which this occurs, as this will inform the potential set of facilities for which no previous data has been defined.

### **Procedure:**

For each reporting country the number of E-PRTR facilities reported under the E-PRTR regulation in March 2019, will be compared to the number of facilities reported to the EU Registry in June 2019. This comparison will be completed in respect to the individual E-PRTR main activities in addition to the overall total number of facilities.

The check contains two parts:

- C1.3a: Check that the total number of production facilities in the EU-Registry is larger than the number of facilities in the E-PRTR reporting
- C1.3b: Check that the total number of production facilities in the EU-Registry is larger than the number of facilities in the E-PRTR reporting for each main Annex I activity

### Follow up action:

This check is for informative purposes and will inform the EEA on the impact of the threshold change. If there are specific reporting countries with large changes relative to other reporting countries, this may be discussed bilaterally.

## C1.4 – LCP comparison

### **Rationale:**

The thresholds that define reporting for LCPs have not changed between the EU Registry and previous LCP reporting. This means the resulting number of LCPs reported in the first year of reporting to the EU Registry should not differ from the number reported in the LCP data flow. In addition, the data should be comparable, such as the thermal input of the LCPs.

### **Procedure:**

For each member state the number of LCPs reported to the EU Registry (June 2019) as installation parts will be compared to the number reported to the previous (March 2019) LCP reporting, and the total sum of thermal input will be compared.

The check contains two parts:

- C1.4a: LCP total number comparison
- C1.4b: LCP total sum of thermal input comparison

### Follow up action:

If there are significant variation between the two totals for any specific member state, this will be raised with the member state via the findings log.

# C1.5 – IED comparison

## **Rationale:**

Installations under the scope of the Industrial Emission Directive (IED) Annex I will be reported to the EU-Registry. Unlike industrial facilities reported under the E-PRTR, there has not been any common central European reporting of IED-installations in the past. One recent study, which compiles IED-data for analysis, is the "Industrial emissions policy country profile"<sup>5</sup> developed for the European Commission covering the EU-27 countries.

## Procedure:

Compare the number of IED installations in the "*Industrial emissions policy country profiles*" reports with the total number reported to the EU-Registry for each country. When there are significant differences, identify the sectors with the largest discrepancies to the "*Industrial emissions policy country profiles*".

## Follow up action:

If there are significant variation between the two totals for any specific member state, this will be raised with the member state via the findings log.

## C1.6 – No changes to submission (deactivated)

## Rationale:

In the first year of reporting (2019) the reporting burden for the reporting countries is higher than average, with two consecutive submissions to the EU-Registry in addition to the last year of E-PRTR and LCP reporting. It is anticipated that some countries could submit exactly the same envelope for the June and September submissions. In that case, one can expect the countries to re-submit the September submission at a later stage. It is useful for EEA to know when this is the case.

## Procedure:

The June submission with 2017 data and the September submission with 2018 data will be compared to see if there are any changes.

## Follow up action:

This check is no longer active.

## C1.7 – Number of LCP emission limit value derogations

## **Rationale:**

Article 32 (for SO2, NOx and dust), Article 33(1) and Article 33(3) of the IED allows competent authorities to set, under certain specific circumstances, less strict emission limit values for LCPs. These derogations are reported to the LCP-register for the last time in March 2019 (2017-data).

## **Procedure:**

It is expected that the number of reported derogations for LCPs to the EU-Registry in the June 2019 reporting (2017data) is equal to the 2017-data reported to the LCP-register in March 2019.

The check contains three parts:

- C1.7a: Number of LCP limit value derogations under Article 32
- C1.7b: Number of LCP limit value derogations under Article 33
- C1.7c: Number of LCP limit value derogations under Article 34

## Follow up action:

<sup>&</sup>lt;sup>5</sup> Ricardo Energy & Environment, March/April 2018, "Industrial emissions policy country profile -", Available at <u>https://circabc.europa.eu/ui/group/06f33a94-9829-4eee-b187-21bb783a0fbf/library/59ecee4a-dbee-49e9-b360-2a2b4d29d39a?p=1&n=10&sort=modified\_DESC</u>

If the number of reported derogations is different from the LCP-register, this will be raised with the member state via the findings log.

## C1.8 – Number of BATAEL derogations

## **Rationale:**

Article 15(4) of the IED allows competent authorities to set, under certain specific circumstances, less strict emission limit values in the permit than the emission levels associated with the best available techniques (BAT). The number of BATAEL derogations for the EU-27countries has been mapped in a study named "Application of IED Article 15(4) derogations" <sup>6</sup> performed for the European Commission DG-ENV in 2018. Countries are expected to report derogations to the EU-Registry from the September submission (2018 administrative data) and onwards.

## Procedure:

For the countries that report derogations to the EU-Registry the total number of reported derogations under Article 15(4) is compared with the report<sup>6</sup> for DG-ENV.

## Follow up action:

If the number of reported derogations is lower or significantly higher than the number in the DG-ENV report, this will be raised with the member state via the findings log.

<sup>&</sup>lt;sup>6</sup> Amec Foster Wheeler Environment & Infrastructure UK Limited ""Application of IED Article 15(4) derogations", March 2018, Available at <u>https://circabc.europa.eu/ui/group/06f33a94-9829-4eee-b187-21bb783a0fbf/library/e95a41c7-a4dd-4f58-9543-9693ba73e572?p=1&n=10&sort=modified\_DESC</u>

# 3 Temporal checks

These checks look across several reporting years to determine whether certain aspects of reporting are being adhered to, e.g., analysing the frequency of changes in certain attributes or patterns in reporting. These checks cover at least three reporting rounds and are activated from the reporting year 2019 and onwards.

# C2.1 – Permit frequency

## **Rationale:**

Permits for IED installations reported to the EU Registry are characterised by certain 'permit actions' accompanied by dates. These actions follow a logical order of granted, reconsidered, and updated which should be reflected by the date of granting the permit and the date of updating the permit. The date of permit granted should refer to the year of which an IED compliant permit was granted. This date should not change and remain static over all reporting years.

The date of permit update refers to the year the permit was last updated, normally a date within the reporting year when the permit update action is true (ref. check C3.11). However, the date of last update is also sometimes reported in years when the permit update is false. To capture possible misreporting in such instances, a check will flag if the date of last update does not follow chronological order between reporting years.

A post-submission check can evaluate the reported data over several years to ensure consistency. Such an evaluation can help to standardise the way in which these actions are interpreted. The specific checks C3.10 and C3.11 also aids this purpose.

## Procedure:

The EU Registry database will be evaluated. Those installations where at least two dates of permit granted and/or permit updated have been reported will be highlighted for each reporting country. The check consists of four parts:

- a) The date of last update should be in chronological order between reporting years, i.e., increasing with increasing reporting year.
- b) The date of last update should never be a date prior to or equal to the date of granting.
- c) The date of granting should be static between all reporting years.
- d) If a permit is granted (Boolean is true) in a reporting year, it should generally be true in all consecutive years if the status of the installation remains 'functional'.

## Follow up action:

If the conditions above are not met for a given IED installation for a given reporting year, the finding is flagged to the reporting countries.

## **C2.2 – Inspection frequency**

## **Rationale:**

For IED installations, the number of site visits is reported to the EU Registry. Article 23 of the IED requires one inspection every year for high risk installations, and one every 3 year for low risk. With the available data reported through the EU-Registry, this requirement is not feasible to verify directly. However, a post-submission check can highlight installations which have not been subject to inspection for several years but may have had permit actions. This could help inform about the differences in the permitting regimes across reporting countries, and the extent to which inspections are linked to permit actions. In this check the reported site visits are used as proxy for inspections in Article 23 of the IED.

## Procedure:

The EU Registry database, once populated with data from at least three reporting rounds, will be evaluated. Those installations where few or no inspections have occurred within the available reporting years, while having permit actions ('permit reconsidered' and/or 'permit updated') in several years, will be identified and evaluated for each reporting country. The threshold is defined by if the relative difference calculated by (p - s) / t is greater than 0.5, where p is the number of years with any permit action, s is the total number of site visits and t is the number of reporting years since

2017. In 2021 this implies that 2 years of permit actions with no site visits or 3 years of permit actions with one or no site visits is flagged.

## Follow up action:

Reporting countries which have been flagged according to the procedure above will be informed via the findings log, and there may be a need for bilateral discussion on their specific permitting regime and interpretation of inspections in the context of the IED.

## C2.3 – totalRatedThermalInput frequency

## **Rationale:**

For LCP installation parts, the total rated thermal input of the plant is reported in megawatts (MW). This indicates the capacity of the plant and should remain relatively static over time. A post-submission check can analyse the frequency of changes to this value, informing the extent to which capacity is altered.

## **Procedure:**

The EU Registry database, once populated with data from at least three reporting rounds, will be evaluated. The change in the totalRatedThermalInput attribute across all installation parts, will be calculated in respect to percentage of capacity and evaluated for each reporting country. Those installation parts with any significant change in this attribute will be flagged. 'Any significant change' is defined as if the totalRatedThermalInput in any year deviates from the average over all reporting years with more than 1 %.

## Follow up action:

Reporting countries which have been flagged will be informed via the findings log and asked to review and, if necessary, clarify how these changes have occurred.

## C2.4 – totalRatedThermalInput national average comparison

## **Rationale:**

For LCP installation parts, the total rated thermal input of the plant is reported in megawatts (MW). This indicates the capacity of the plant and should remain relatively static over time. A post-submission check will be able to analyse how these individual capacities, when summed into a national total and averaged, compare to previous reporting years. In this manner, individual years where the average significantly differs can be flagged as anomalies.

## **Procedure:**

The EU Registry database, once populated with data from at least three reporting rounds, will be evaluated. The totalRatedThermalInput attribute across all installation parts will be summed and an average for each reporting country and reporting year will be calculated. Those reporting years which differs from the average with more than 10 % will be flagged

## Follow up action:

Reporting countries which have been flagged will be informed via the findings log and asked to review and, if necessary, to clarify how these changes have occurred.

# 4 Specific checks

## C3.1 – Coordinates to activity validation

## **Rationale:**

Automated checks at the time of submission ensure the specified coordinates for an entity lie within the country area, however post-submission review checks could further align the Annex I Activity reported to the placement of

coordinates. This is especially of value in respect to locations in offshore waters and those activities which pertain to aquaculture or fossil fuel exploration.

## **Procedure:**

Those facilities or installations which have coordinates located in waters, will be evaluated. These entities will be determined via geo-processing with GIS software, and country geometries provided by Eurostat.<sup>7</sup> A list of acceptable 'on-water' and 'on-land' activities for both the IED and E-PRTR will be determined and compared against the Annex I activities reported. Facilities or installations with unusual activities relative to their offshore location will be flagged. The E-PRTR activities 1(c) 'Thermal power stations and other combustion installations' and 7(b) 'Intensive aquaculture' as well as IED activity 1.1 'Combustion of fuels' are pre-defined as 'acceptable' offshore activities.

## Follow up action:

Reporting countries which have been flagged will be informed via the findings log and asked to explain the reasoning behind the chosen activity for a specific installation or facility.

## C3.2 – Coordinates distance analysis

## **Rationale:**

The EU Registry Quality Assurance Logic document includes multiple checks to evaluate the distances between entities, based on the supplied coordinates; however, a manual post-submission check can be more informative. For example, it would be anticipated that the distances between connected entities would decrease progressing down the geographical hierarchy e.g. the distance between the centre point of the installation to the associated facility would be less than that of the distance between the centre point of the site to the facility. The check could also flag extreme distances and begin to analyse how these relate to Annex I activities. For example, it is anticipated that the distances between entities could be much larger in respect to 'opencast mining & quarrying' (E-PRTR Annex I Activity: 3b), than 'urban waste-water treatment plants' (E-PRTR Annex I Activity: 5f).

### **Procedure:**

The coordinates of all entities would be used to calculate the distance between the facility and associated site, installation and associated facility, and installation part and associated installation. Based on expert judgment an acceptable maximum distance related to the main IED or E-PRTR Annex I activity associated with the complex will be established. The distance decreases progressing down the geographical hierarchy. Associated entities will be flagged when subject to large entity distances. The acceptable maximum distance (threshold) is currently set to 6 km for site to facility, 4 km for facility to installation and 2 km for installation to installation part.<sup>8</sup>

### Follow up action:

Reporting countries which have been flagged will be contacted and asked to review and if necessary clarify large entity distances.

## C3.3 – URL validity

### **Rationale:**

The PermitURL, a parentCompanyURL, a publicEmissionMonitoringURL and a publicDisclosureURL attribute can be populated for entities reported to the EU Registry. A post-submission check could determine the validity of the URL provided.

### **Procedure:**

Where a URL is supplied for an entitiv, the URL attribute will be evaluated by a macro determining whether the URL is valid, i.e., a webpage or document can be accessed. Installations where the URL is not valid will be flagged.

<sup>&</sup>lt;sup>7</sup> Countries 2016 shapefile, 1:10 million, CNTR\_RG\_10M\_2016\_4326, available at: <u>http://ec.europa.eu/eurostat/web/gisco/geodata/reference-data/administrative-units-statistical-units/countries</u>

<sup>&</sup>lt;sup>8</sup> These thresholds are set from January 2020. For the findings logs distributed in 2019 the thresholds were 2 km for site to facility and facility to installation, and 1 km for installation to installation part.

### Follow up action:

Installations or facilities for which an invalid URL has been flagged will be communicated to the member state.

## C3.4 – EU-ETS & eSPIRS identifier validity

## **Rationale:**

For each installation reported to the EU Registry the comparative entity according to EU-ETS or Seveso reporting should be supplied. The automatic EU Registry QA/QC checks C13.1 and C13.2 analyse the linkages supplied to ensure that the correct entity is referenced.

## Procedure:

The number of warnings produced under QA/QC C13.1 and C13.2 on the ETS or eSPIRS identifier will be flagged.

## Follow up action:

The reporting countries are asked to revise their ETS and eSPIRS identifiers, particularly if the numbers are significant.

## C3.5 – Remarks evaluation

### **Rationale:**

The EU Registry includes the ability to supply any additional information pertaining to an entity in the 'remarks' attribute. A post-submission check should evaluate and flag any remark of importance.

### **Procedure:**

All entities where the remarks attribute has been populated will be evaluated. Any comment deemed important by the expert reviewer will be flagged to the EEA.

### Follow up action:

It may be necessary to raise certain comments to the reporters to advise on reporting.

## C3.6 – NACE to Annex I Activity comparison (deactivated)

### Rationale:

The EconomicActivityValue or NACE code, for the respective facility is reported in the EU Registry. Certain categories align with the Annex I activities presented in the E-PRTR. A post-submission check could evaluate whether the EPRTRAnnexIActivity reported for the facility aligns with the NACE code. Such a check could also be automated once the alignment between the NACE code and Annex I activity is defined. A post-submission check, however, will inform on the benefits of automating this, and the extent to which alignment does or does not occur. The mapping table of clearly defined linkages between the E-PRTR Annex I activity and NACE codes has been determined by EEA<sup>9</sup>.

Accordingly, the main activity occurring within the facility, can be determined either qualitatively by considering the primary purpose of the facility, or quantitatively via comparing the amounts of product generated from each activity or the economic value associated with each activity occurring. Hence, it is possible to apply different rationale when establishing the EconomicActivityValue and EPRTRAnnexIActivity codes for the facilities. For this reason, the check is currently not active, as further assessment is required to determine common scenarios where the EPRTR activity and the NACE code activity may not align. This will prevent the reporting of large numbers of findings to reporters.

## Procedure:

It is proposed that the EEA and ETC/ATNI will assessed the data submitted by reporters for 2017 and identify E-PRTR activities where the NACE code may commonly be different to the E-PRTR activity code. These sectors can be excluded from this check in the future in order to produce a more refined set of findings for investigation by the reporting countries.

<sup>&</sup>lt;sup>9</sup> <u>https://cdr.eionet.europa.eu/help/nomenclature\_emission</u>

### Follow up action:

Facilities which have been flagged will be communicated to the reporters in the findings log, once this check becomes active.

## C3.7 – Continuous reporting of decommissioned entities

### **Rationale:**

A Production Facility, a Production Installation or a Production Installation Part should be removed from the EU-Registry when the entity was reported as decommissioned in previous year's submission.

#### **Procedure:**

The list of InspireIDs for the Production Facilities, Production Installations or Production Installation Parts that are reported as decommissioned for the previous year of reporting will be checked against the current reporting to see if any of these InspireIDs are found.

### Follow up action:

If the InspireID of the entities reported as decommissioned in the previous year of reporting is still present in the current reporting then a comment will be added to the findings log.

## C3.8 – Trailing zeros in numbers (deactivated)

#### Rationale:

The FME process (Access to GML) is removing trailing zeros in numbers and this is resulting in the Coordinate precision completeness check (automatic check 5.5) generating a warning. A large number of such warnings may mask actual issues with the data that should be flagged to the reporting countries. If the number of Coordinate precision completeness checks are large relative to the total number of reported entities, this may indicate that there are other issues present than the trailing zeros removed.

### Procedure:

The number of Coordinate precision completeness checks that are flagged is compared to the number of reported entities.

#### Follow up action:

The check is deactivated based on experience from the previous two reporting rounds. When there are issues with accuracy in the coordinates, it will in most cases be captured by the checks C3.1 and/or C3.2. Feedback on trailing zeros issues is already given through the automatic QA/QC.

## C3.9 – Inconsistencies at re-submission

#### **Rationale:**

The EU-Registry relies on consistency between submissions with respect to data that identifies entities and the relation between them. When re-submitting data for a year prior to the latest reported data, these datasets may have undiscovered inconsistencies because there is no mechanism to require QA/QC checks on later submissions. For example, when re-submitting the 2017 data after the 2018 data has been reported, the reporting countries are encouraged to run through the automatic QA/QC checks on the 2018 data in order to check that the 2018 data is still consistent with 2017, but there are no mechanisms to enforce this.

## Procedure:

The envelope dates are compared to see if envelopes are not submitted in the order of the reporting years. The submission will also be marked by an "R" at the online submission dashboard if this is the case <sup>10</sup>

## Follow up action:

If inconsistencies are found, the countries should run QA/QC checks on all dataset with reporting years subsequent to the latest submitted dataset.

## C3.10 – Inconsistencies in permit actions reporting

## **Rationale:**

Permits for IED installations reported to the EU Registry are characterised by certain 'permit actions'. A postsubmission check can evaluate the logical order of these actions in the reported data over several years. Such an evaluation can help to standardise the way in which these actions are interpreted. It follows from this logic that a permit must have been granted before it is reconsidered or updated. The CID<sup>11</sup> of the IED states that "*permit conditions are to be periodically re-considered, and where necessary updated, (...)*". This implies that a permit cannot be updated without being reconsidered first.

## Procedure:

The following procedure is followed:

- a) If a permit is reconsidered, the permit granted Boolean should be true within the same reporting year.
- b) If a permit is updated, both the permit reconsidered and the permit granted Boolean should be true within the same reporting year.

## Follow up action:

If inconsistencies are found, the countries should re-submit data.

## C3.11 – Inconsistencies in permit action dates reporting

## **Rationale:**

The permit actions follow a logical order of granted, reconsidered, and updated which should be reflected by the reported date the permit was granted and the following dates of updating the permit. The date of permit granted should refer to the year of which an IED compliant permit was granted and should be populated and remain static over all reporting years.

The date of permit update refers to the year the permit was last updated. If the permit updated Boolean is true for a given reporting year, a post-submission check will verify if the permit updated date is a date within that reporting year. Some countries report the date of last update also in years when the permit updated Boolean is false. In this case the date of update should be a valid date in previous reporting years and not in the future with respect to the reporting year. Furthermore, the temporal check C.2.1 will flag if the date of last update does not follow a chronological order between reporting years. The dates entered for permit granted and permit updated should also be valid.

## Procedure:

The logic for this post-submission check can be summarized in the following four parts:

- a) If the permit is updated in a reporting year, the date of last update should be populated with a date, and this date should be within the reporting year it is given.
- b) If the permit is not updated within a reporting year, the date of last update should be in a year prior to the reporting year.
- c) If a permit is granted a date should be given.

<sup>&</sup>lt;sup>10</sup><u>https://tableau.discomap.eea.europa.eu/t/Aironline/views/EURegistrySubmissionStatus/Statusofsubmissionandi</u> <u>mport</u> Online dashboard of submissions.

<sup>&</sup>lt;sup>11</sup> Commission Implementing Decision (EU) 2018/1135 of 10 August 2018 <u>http://data.europa.eu/eli/dec\_impl/2018/1135/oj</u>

- d) Valid dates should be entered for permit granted. It is considered unlikely that a permit granted considerably before 2010 will be compliant with the directive. If the date of granting is reported to be prior to the year 1996 it is flagged in the findings log file.
- e) The date of granting should not be in the future with respect to the reporting year. Generally, the reported data should reflect the status of the entities at the end of the reporting year.

## Follow up action:

If inconsistencies are found, the countries should re-submit data.

# 5 Findings log

Findings of the checks detailed within this document will be communicated via a 'Findings Log', sent to the reporting countries via an email to a designated representative or access through the EIONET. Reporting countries should respond to each individual finding and return/re-upload an edited version of the findings log. More detail on how individuals should use the Findings Log is provided below.

The Findings Log is an Excel file, with 6 tabs; 'Info', 'The findings log explained' and separate tabs for 'Transitional findings', 'Temporal findings', 'Specific findings' and a tab listing the 'Thresholds for checks'. The info tab contains the country, the date the xml-file was uploaded, the reporting year, and any notes written by the reviewer. Reporting countries should then provide the names and email addresses of 'Respondees', those who have provided responses to the findings. It also gives some general instructions to the reporters. The info table is displayed below.

## Figure 2 - The info page of the findings log

Findings-log for t	he EU-Registry post-submission checks					
Reporting country:						
Reporting date:	2019-06-27					
CDR envelope (URL):	https://cdr.eionet.europa.eu/dummy.xml					
Reporting year:	2017					
Notes:						
Respondee(s):	Please fill in information					
Respondee email(s):	Please fill in information					
Instructions for completion of findings log:	Reporting countries are expected to review the reported findings and investigate the issue to assess whether information needs to be amended. The findings of the investigation should be summarised in the fields 'Response by country' and 'Comment by country' in the log. Countries should indicate whether or not a finding is of relevance and how it will be addressed or if it needs more detailed investigation. EEA will register and keep track of these country responses, aiming to avoid repetitive feedback to the country on the same but earlier clarified findings year after year. In the 'response by country' field the reporters should select one of the options from the dropdown list and provide further evidence/details in the 'comment by country' field. The rationale and procedure for the checks is described in the EU-Registry manual for post-submission checks Please do respond to the findings in the 'Transitional findings' sheet					
	Please do respond to the findings in the 'Specific findings' sheet					
Manual for post-submission checks:	http://cdr.eionet.europa.eu/help/euregistry/Documents/EU Registry Post Submission Manual for Procedure V1.4.pdf					
EEA-contact:	Ian Marnane /Bastian Zeiger					
EEA-contact email:	European Topic Centre on Air pollution,					
ETC/ATNI-contact:	Torleif Weydahl transport, noise and industrial politikution					
ETC/ATNI-contact e-mail:						

The finding log explained tab gives a general overview of the various fields in the findings log. It also specifies how the country response should be given. Finally, some general information on how the mapping between E-PRTR and LCP is performed for the transitional check is given. The mapping is either manual or through the E-PRTR National ID.

## Figure 3 – 'The findings log explained' tab, found in the findings log.

Explanation of columns in the 'Findings Log' and its intended use by countries						
Finding details	Fields describing the finding					
Finding_ID	An id identifying the finding for the specific entity and reporting year. For the relevant transitional checks, the facilityID / plantID is part of the Finding_ID					
CDR_envelope (URL)	The URL of the CDR Envelope as place holder of the (re)submitted data file on CDR for the E-PRTR and IED obligations on the legal basis of CID 2018/1135/EU					
Check_ID	An identifier for each check for reference in the Manual of procedure					
Check Name	Short title of each check.					
Country	Country name					
localId	Where relevant, the EU-registry local Id (the Inspire Id) is given					
Top polluter	A boolean indicating if the facility or LCP is defined to be among the top polluters					
Finding	A text describing the finding.					
Additional comment	If necessary an additional comment by the ETC/EEA expert reviewer will be given					
Reference data label	The label of the reference data used for comparison is described (transitional checks only)					
Reference data	The reference data used for comparison is given (transitional checks only)					
EU-Registry data label	The label of the EU-Registry data used for comparison (in transitional checks) or individual evaluation (in specific checks)					
EU-Registry data	The EU-Registry data used for comparison (in transitional checks) or individual evaluation (in specific checks)					
Country response	Fields to be filled out by the country indicating what and how they will handle and/or solve the observed issue.					
Response by country	There are three drop down responses to choose from					
	Data confirmed to be correct					
	Data needs correction					
	Further investigations needed by country					
Comment by country	A free formatted text field for any type of written response by the country on the finding and the planned actions envisioned to solve the issue.					
General info	Description of how the mapping between E-PRTR /LCP-register and EU-Register has been performed for the data of the reporting country					

Reporting countries are expected to review the reported findings and investigate the issue to assess whether information needs to be amended. The findings of the investigation should be summarised in the fields 'Response by country' and 'Comment by country' in the log. Countries should indicate whether or not a finding is of relevance and how it will be addressed or if it needs more detailed investigation. In the 'response by country' field the reporters should select one of the options from the dropdown list and provide further evidence/details in the 'comment by country' field. The options in the dropdown list are given in Table 1 below.

Status	Meaning/interpretation
Data needs correction	The data is confirmed to be incorrect and will be corrected. In most cases this implies a re-submission of the data file.
Data confirmed to be correct	The reporting country has evaluated the finding and found the data to be correct.
Further investigations needed by country	The finding requires further investigations by the country. Feedback on the finding will be given at a later stage.

EEA will register and keep track of these country responses, aiming to avoid repetitive feedback to the country on the same but earlier clarified findings year after year. For the 2021 post-submission round, responses previously marked by the reporting country as 'Data confirmed to be correct' will not be flagged again. This applies to specific checks for all three reporting years (2017, 2018 and 2019) and to transitional checks for 2017 and 2018. Temporal checks are performed for the first time in the 2021 post-submission round.

The main findings tables details the check number, the check name, the InspireID of the entity and the finding. All of which will be populated by the reviewer if there are findings to be addressed. Reporting countries should provide their responses in the Response fields. They should then change the status according to Table 1. An example of a populated finding in the main 'specific findings' table can be found below.

## Figure 4 – 'Transitional findings' table of the findings log with example.

	A	В	с	D	E	F	G	1	J	к	L	м
1	Finding_ID	Check_ID	Check Name	Country	localid +	namespace	Finding	EU-Registry data label	EU-Registry data	Response by country	Comment by country	EEA response/follow-up action
							The entity is outside country borders and have					
			Coordinates to				an activity that do not align with offshore				Will be corrected in next	
2	C3.1_2019_9	C3.1	activity validation	Dummy	9008390	Dummy.CAE	activities	Ion, lat / Annex I activity	13.799917, 47.992333 / 5.2	Data needs correction	resubmission	
							The entity is outside country borders and have					
			Coordinates to				an activity that do not align with offshore				The enitity is confirmed to be	
3	C3.1_2019_9	C3.1	activity validation	Dummy	9008391	Dummy.CAE	activities	Ion, lat / Annex I activity	15.047222, 48.136667 / 2.3	Data confirmed to be correct	within country boundaries	
							The entity is outside country borders and have					
			Coordinates to				an activity that do not align with offshore					
4	C3.1_2019_9	C3.1	activity validation	Dummy	9008391	Dummy.CAE	activities	lon, lat / Annex I activity	15.285833, 31.269167 / 5(d)	Data confirmed to be correct		
5												

Reporters' responses in the Findings Log will be collected and kept in a system to avoid re-flagging of issues that already have been confirmed to be correct. The response alternative 'Data needs correction' implies resubmission of data.

There will basically be only one Findings Log send to reporting countries for each submission. The ETC in cooperation with EEA will develop procedures to evaluate if data is being corrected when the response in the Findings Log indicate so. The findings that are confirmed to be correct may also be evaluated at a certain stage. This to accomplish the highest data quality possible of the EU-Registry data.