Air Emissions Inventory (EI) – Running and reviewing a Quality Assurance (QA) Report

July 2021

Summary

- General
- Running a QA report
- Reviewing a QA report
- Sections of the QA report
 - Employee number check
 - Facility area check
 - Permit class code check
 - Throughput information checks
 - PM vs. PM10 vs. PM2.5 checks
 - PM, ROG, TRS (total reduced sulfur) and glycol ether component checks
 - Stack parameters checks
 - Help

General

- After all required data has been provided and the emissions calculator has been run successfully, a quality assurance (QA) report should be generated and reviewed before submitting an EI.
- A QA report lists potential and actual problems in an EI.
- View the <u>list</u> of QA messages and suggested actions.
- If any revisions impact emissions, run the emissions calculator again.

Running a QA report

1. In the blue column on the left, click *Emissions* & *Billing*, QA, *Summary Reports*, *Certification* and *Under-Thresholds-Notification* (UTN).

FID: 555555550 Air Emissions Reporting FID: 555555

Facility - 555555550 : AIR Test FACILITY #1 DNR Contact : Steven Bogost, (608) 264-8843 Steven.Bogost@wisconsin.gov

Back to Switchboard

Annual Reporting Home

Update Facility Info

Update Contacts

Update Device/Process

Final Check/Submit Data

Emissions & Billing, QA, Summary Reports, Certification and Under-Thresholds-Notification (UTN)

<u>Air Reporting System (ARS) Home for the 2020 Air</u> <u>Emissions Inventory (EI)</u>

Air Emissions Inventory (EI) Reporting Calendar

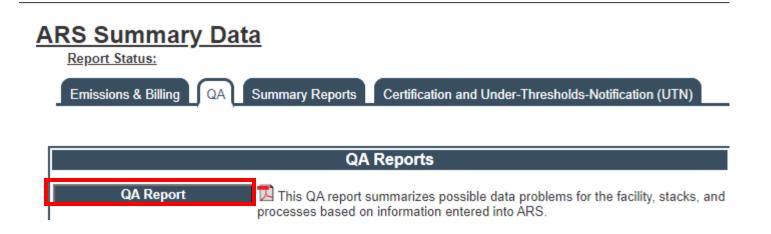
- . March 1, 2021 Els or Under-Thresholds-Notifications (UTNs) are due.
- . April 1, 2021 Facilities notified through email that Els or UTNs are overdue.
- By May 31 2021 environmental fee statements are emailed to facilities or mailed if no email address is available.
- June 30, 2021 Environmental fees payments and certifications are due.

El Reporting Basic Steps

- Review, revise and save the facility info including completion the Environmental Management System (EMS)
 questionnaire.
- Doulow contacts info. If changes are peeded, only people proviously associated with the facility can be assigned

Running a QA report

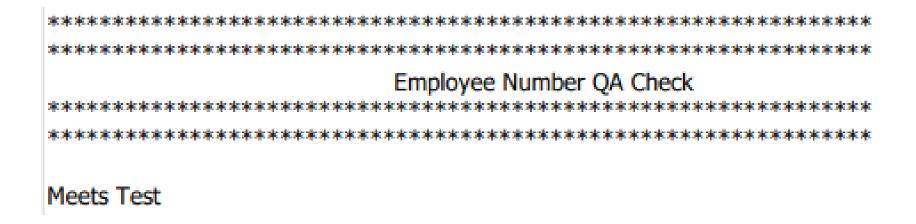
2. On the ARS Summary Data page on the QA tab, click *QA Report*. This will generate a pdf file containing the report.



Reviewing a QA report - general

- The QA report is broken into different sections by type of QA check.
- Checks that compare data from different EI years use the current and previous year's EI.
- Many messages are potential problems, not necessarily actual problems.

1. Employee number check – Number of employees reported must be greater than 0.



2. Facility area check – The facility area must be greater than 100 square feet.

3. Permit class code check – EPA Class Code does not match emissions.

Permit Class Code QA Check

DNR Class Code: A

Class Code Determined From Reported Emissions: Class Code A - Emissions Verified as A Source - Max Criteria: Pollutant-NOX Amount (tons): 2,764.70 Max HAP: Pollutant CYANIDE Amount (tons): 3.96 HAP Sum(tons):

20.91

Note: Please review your emissions if the

Determined Emission Class Code is an SM80 or A and the DNR Class Code is an SM or B

- Thruput information checks – The following do not necessarily indicate a problem:
 - a. Throughput did not change in consecutive years.
 - b. Throughput reported in prior year but not in current year.
 - c. Throughput decreased over two years, but emissions increased.

```
B01- 99 Both last year and current year throughputs are 0
B01- 77 Different Units over two years
B01- 88 Both last year and current year throughputs are 0
B01- 66 Both last year and current year throughputs are 0
B02- 02 Both last year and current year throughputs are 0
B02- 20 Thruput Went to 0 Current Year
M01- 01 Both last year and current year throughputs are 0
```

- 5. PM vs. PM10 vs. PM2.5 checks:
 - a. PM2.5 not greater than PM10
 - b. PM2.5 not greater than PM
 - c. PM10 not greater than PM

- 6. PM, ROG (Reactive Organic Gases), TRS (total reduced sulfur) and glycol ether component checks:
 - a. Sum of individual PM toxics greater than PM. See list of PM toxics.
 - Sum of individual ROG toxics greater than ROG. See list of VOC toxics.
 - c. Sum of reduced sulfur compounds greater than TRS. See list of <u>reduced sulfur compounds</u>.
 - d. Sum of glycol ethers toxics greater than glycol ethers.
 Also, note the glycol ethers are ROG toxics too. See list of glycol ethers.

^{*}See an example on the next slide.

PART, VOC, TRS, Glycol Ether Component QA Check B01-02VOC components 15.00greater than VOC Total .00The VOC Components are: ACETIC ACID 55858-P01 PARTICULATE components ############# greater than Particulate Total .00The Particulate Components are: 1,3,5 TRIGIY 1102-01 PARTICULATE components .00 greater than Particulate Total .00The Particulate Components are: 1,3,5 TRIGIY 125.00greater than VOC Total 1004-mVOC components .00The VOC Components are: BUTYL CELL, GLYCOL ETHER, ISOPROP 2 1004-mGlycol Ether components 125.00greater than Glycol Ether Total 50.00The Glycol Ether Components are: BUTYL CELL, ISOPROP 2 B01-999 PARTICULATE components 98.00 greater than Particulate Total .00The Particulate Components are: ADIPIC ACID

- 7. Stack parameters checks
 - a. Stack Height less than 500 feet
 - b. Stack diameter less than 10 feet
 - c. Stack exit velocity is between 0 and 200 feet per second
 - d. Stack temperature is not 0, negative or greater than 1,500 degrees Fahrenheit
 - *See an example on the next slide.

```
STACK PARAMETER QA Check
S001 Stack Exit Temperature of -351.40 def F is negative
S003 Stack Exit Temperature of -279.40 def F is negative
S16 Stack Diameter of 16.40 feet exceeds 10 feet
S16 Stack Exit Velocity of
                             .00 fps is 0
S16 Stack Exit Temperature of
                                -9.40 def F is negative
S19 Stack Exit Velocity of
                             .00 fps is 0
S19 Stack Exit Temperature of -459.40 def F is negative
S199 Stack Exit Velocity of .00 fps is 0
S79 Stack Exit Velocity of .00 fps is 0
S88 Stack Exit Velocity of .00 fps is 0
S88 Stack Exit Temperature of -459.40 def F is negative
SSS Stack Exit Velocity of
                             .00 fps is 0
SSS Stack Exit Velocity of .00 fps is 0
SSSS Stack Exit Velocity of .00 fps is 0
s789 Stack Exit Velocity of .00 fps is 0
s99 Stack Exit Velocity of
                             .00 fps is 0
snake Stack Exit Velocity of
                               .00 fps is 0
sssss Stack Exit Velocity of .00 fps is 0
stack Stack Exit Velocity of
                           .00 fps is 0
stack Stack Exit Temperature of -459.40 def F is negative
stack1 Stack Exit Velocity of .00 fps is 0
stack2 Stack Exit Velocity of .00 fps is 0
```

For EI and Air Reporting **Switchboard Help**

Contact the facility-assigned compliance engineer. On DNR's website, find the compliance engineer's contact information by using the Air Permit Search Tool to locate the facility and select the DNR Air Contacts tab.

Facility Contacts | DNR Air Contacts | Permits and Permit Applications

Emission Inventory Reports

Industrial Monitoring

- OR -
- **Email:**

DNRAMEmissionsInventory@wisconsin.gov