

ECMPS 2.0 Update

CISCO Software Update

Kevin Batchelder

Lead Software Developer

September 2024



ECMPS 2.0 Status

- EPA effort to redesign ECMPS
 - Convert Client Tool to browser-based application
 - Reduce calls to CAMD for technical support
- EPA has delayed the launch of ECMPS 2.0
 - No announced date

Breeze75 & ECMPS 2.0

- Ongoing beta testing
- Breeze produces JSON files for beta testing (not in released versions)
- SQL Server 2016 or later required (for JSON support)

Breeze75 / ECMPs 1.0

- Few changes – mostly stable
- Refinements/fixes for uncommon situations

Cylinder Manager

Many changes and improvements

- Add support for barcode scanners
- Comparison logic ignores minor differences in cylinder info (leading zeros, different date formats, etc.)

SCAQMD Rule 218.3

Rule effective 1/1/2025, earlier for some sources

Numerous changes

- Allow data to be flagged as offline
- Linearity error calculation
- CGA required if > 168 op hours in quarter (instead of 1)
- Data substitution
- Etc.

Cedar 8.05.05+



Alarms for Missing Linearity Checks

- Cedar periodically counts op hours in current quarter
 - If “enough” op hours, then looks for CGAs and linearity checks
 - Warning alarm if missing QA
-
- Detects Part 75 168-hour grace period
 - Warning alarm includes grace period hours remaining
 - Handles Part 75 linearity checks marked as “grace period”

Info Alarms when settings change

- Info alarm when setting/constant value changes
- Previously, alarm only if change was made in Cedar
- Now alarm for changes from anywhere (e.g., a PLC)

Example alarm text

Facility: GCV Gas Btu/scf changed from '1030.5' to '1031.2'

Copy/Paste in Data Editor

Added copy/paste buttons to hourly data editor

- Can copy data to spreadsheet
- Modify data
- Paste back into editor

Copy/Paste in Data Editor

The screenshot shows the 'Edit Data Points' dialog box in the CeDAR Data Editor. The dialog is titled 'Edit Data Points' and has a menu bar with 'File', 'Edit/View Data', 'Database Utilities', 'Data Evaluation', 'CISCO', and 'Help'. The main area contains several controls:

- Radio buttons for 'Long period data' (selected) and 'Short period data'.
- A 'Unit' dropdown menu set to 'Turbine 3-1'.
- A 'Parameter' dropdown menu set to '60-NOx ppm 1-Hr'.
- 'From' and 'To' date/time pickers set to '12/12/2023 12:00 AM' and '12/12/2023 11:00 PM' respectively, with a 'Load Data' button to the right.
- A table with columns 'Timestamp', 'Value', and 'Monitor Code'.
- A vertical list of buttons: 'Select All', 'Invert Selection', 'Deselect All', 'Copy' (highlighted with a red circle), 'Paste', 'Edit', 'Save', and 'Cancel'.
- Checkboxes for 'Rebuild after editing' (checked) and 'Rebuild in background' (unchecked).

Timestamp	Value	Monitor Code
12/12/2023 12:00 AM	1.6	00 - Valid
12/12/2023 1:00 AM	1.6	00 - Valid
12/12/2023 2:00 AM	1.6	00 - Valid
12/12/2023 3:00 AM	1.6	00 - Valid
12/12/2023 4:00 AM	1.6	00 - Valid
12/12/2023 5:00 AM	1.6	00 - Valid
12/12/2023 6:00 AM	1.6	00 - Valid
12/12/2023 7:00 AM	1.7	75 - Valid; one or two quadrants inve
12/12/2023 8:00 AM	30.4	15 - Preventative Maintenance
12/12/2023 9:00 AM	1.6	75 - Valid; one or two quadrants inve
12/12/2023 10:00 AM	1.6	00 - Valid
12/12/2023 11:00 AM	1.6	00 - Valid
12/12/2023 12:00 PM	1.6	00 - Valid
12/12/2023 1:00 PM	1.6	00 - Valid
12/12/2023 2:00 PM	1.6	00 - Valid

Revised Part 60 CGA Pass/Fail Criteria

EPA revised alternative pass/fail criteria

➤ Percent limits did not change ($\pm 15\%$ of reference value)

- Old limit was ± 5 ppm for all
- Effective May 30, 2023
- Some local regs specify other criteria

Analyzer Span	Alternative CGA criteria
>50 ppm	± 5 ppm
>20, ≤ 50 ppm	± 3 ppm
≤ 20 ppm	± 2 ppm

40 CFR 60 Appendix F 5.2.3(2)

➤ Errors as promulgated; corrected table shown

CISCO Software

Questions?