

April 29, 2004

Franklin R. Wheeler
Authorized Account Representative
Motiva Enterprises LLC
Delaware City Refinery
2000 Wrangle Hill Road
Delaware City, DE 19706

Re: Request for Permission to Report 2003 Emissions Data in EDR Version 2.1 for
the Process Heaters at the Delaware City Refinery

Dear Mr. Wheeler:

This is in response to your October 13, 2003 letter in which Motiva Enterprises LLC (Motiva) requested permission to use version 2.1 of EPA's Electronic Data Reporting (EDR) format in the first three quarters of 2003, to report nitrogen oxides (NO_x) emission data and unit heat input for five process heaters at its Delaware City, Delaware refinery. EPA approves the petition, with conditions, as discussed below.

Background

Motiva owns and operates five process heaters, Units 37H1, 21H701, 25H1A, 41H1, and 42H123, at its Delaware City, Delaware refinery, which are subject to the NO_x Budget Program under Delaware Regulation No. 39. Section 8 of that regulation requires Motiva to continuously monitor and report nitrogen oxides (NO_x) mass emissions and unit heat input in accordance with 40 CFR Part 75, beginning on May 1, 2002.

Units 37H1, 21H701, 25H1A, 41H1, and 42H123, unlike most other NO_x Budget Program units, do not produce either electrical or steam load. In anticipation that such non load-based units might become affected units in the NO_x Budget Program, EPA promulgated changes to Part 75 on June 12, 2002. To implement these rule changes, the Agency required the owners or operators of non-load-based units in the NO_x Budget Program to use a new version of the EDR, i.e., version 2.2.

Motiva did not upgrade to EDR version 2.2 for Units 37H1, 21H701, 25H1A, 41H1, and 42H123, but continued to report emissions data in EDR version 2.1 (which is the standard reporting format for load-based units) for the remainder of 2002, and on into 2003. To adapt EDR version 2.1 to the non-load-based process heaters, Motiva used surrogate values for unit load, such as production rates or feed rates. Motiva had previously received permission to

report this way under the Ozone Transport Commission (OTC) NO_x Budget Program.

In the October 13, 2003 letter, Motiva states that its software vendor, Environmental Systems Corporation (ESC), believed that upgrading to version 2.2 was optional for the Delaware City process heaters. However, ESC subsequently committed to making the upgrade in the 4th quarter of 2003. In view of this, Motiva requested permission to use EDR version 2.1 through the 3rd quarter of 2003 and to make the upgrade to version 2.2 in the 4th quarter.

EPA's Determination

EPA conditionally approves Motiva's request to use EDR version 2.1 to report emissions and heat input data from Units 37H1, 21H701, 25H1A, 41H1, and 42H123 for the first three quarters of 2003 and to upgrade to version 2.2 beginning with the 4th quarter of 2003. The Agency has determined that the use of version 2.1 does not affect the reported NO_x mass emissions and heat input data for these units in the 2003 ozone season. The fact that the reported unit load information is not "real" is of no consequence in this case, since each unit is monitored separately and is not associated with a common stack or pipe, where electrical or steam load would be needed to apportion heat input to the unit level.

Note that EPA reviewed the 4th quarter, 2003 reports for the process heaters, which were submitted by Motiva in January, 2004. These reports were found to be in EDR version 2.2 format, consistent with Motiva's stated intent in its October 13, 2003 petition. However, the reports are unsatisfactory, in that a significant amount of the data was not reported according to the EDR version 2.2 Instructions.

In view of this, Motiva must, as a condition of this approval, work with ESC to ensure that, beginning with the reports for the 4th quarter of 2003 (which must be resubmitted), all EDR reports for Units 37H1, 21H701, 25H1A, 41H1, and 42H123 are in proper version 2.2 format and are able to be processed by EPA's Emission Tracking System (ETS) and Monitoring Data Checking (MDC) software. The differences between EDR versions 2.1 and 2.2 are summarized in Tables A-1 and A-2 in Appendix A of the March, 2003 "Revised EDR Version 2.2 Reporting Instructions" (available on the CAMD website). EPA recommends that Motiva and ESC use these tables as a guide in preparing the version 2.2 EDR reports for the process heaters. Many of the differences between the two EDR versions pertain to non-load-based units. The following are some important checkpoints to consider in filling out the individual EDR record types:

- * RT 504—In column 10, the unit type code must be "PRH" for process heaters. Also, there is a mandatory identifier ("Y") in column 53 for non load-based units.
- * RT 535---For non-load-based units, the EDR Instructions say that this record should only be reported if you have an exemption from 3-load flow RATA testing. Since process heaters do not have stack flow monitors, RT 535 should not be in the reports.
- * RT 536---For non-load-based units, the upper and lower boundaries of the range

of operation must be expressed in terms of stack gas velocity (ft/sec).

- * RT 585---For non load-based units, you must either report "NLB" or "NLBOP" as the missing data approach in column 28. Use code NLBOP only if you have defined "operational bins" for missing data purposes.
- * RT 300---The unit load in columns 22 and 28 must be left blank. Also leave the load or operational bin number in column 34 blank, unless operational bins are used for missing data purposes.
- * RTs 303 and 320—Leave the load or operational bin number blank in these records unless operational bins are used.
- * RTs 610 and 611--- When the results of RATA tests are reported, data in the "operating level" fields of RTs 610 and 611 must be reported in units of ft/sec, consistent with the information in RT 536.

EPA's determination in this letter relies on the accuracy and completeness of the information provided by Motiva in the October 13, 2003 petition and is appealable under Part 78. If you have any questions about this determination, please contact Robert Vollaro, at (202) 343-9116. Thank you for your continued cooperation.

Sincerely,

/s/
Sam Napolitano, Director
Clean Air Markets Division

cc: Jerry Curtin, EPA Region III
Robert Taggart, DNREC
Robert Vollaro, CAMD
Ujval Shukla, CAMD