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WV AIR QUALITY

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West Virginia Department of Environmental Protection

Bob Wise
Governor

Stephanie R. Timmermeyer
Acting Cabinet Secretary

March 13, 2003

CERTIFIED MAIL

7002 0860 0001 4581 3412

Paul J. Bossert Jr.
Plant Manager
DuPont Washington Works
P. O. Box 1217
Parkersburg, WV 26102-1217

RE: Additional Obligations Notice
E.I. DuPont de Nemours & Co., Inc.
Washington Works
GWR-2001-019
Plant ID No. 107-00001

Dear Mr. Bossert:

The West Virginia Department of Environmental Protection's Division of Air Quality (DAQ) is hereby providing notice to DuPont, Washington Works, of the implementation of the provisional air screening level of 1.0 microgram per cubic meter ($\mu\text{g}/\text{m}^3$) ammonium perfluorooctanoate (C8) concentration as developed by the C8 Assessment of Toxicity (CAT) Team pursuant to Attachment C of Consent Order GWR-2001-019. The emissions by DuPont are not to exceed the screening level in areas accessible to the public. As stated in the Consent Order, the air screening level adopted by the CAT Team will be the basis for compliance until such time as the United States Environmental Protection Agency promulgates a standard for C8.

Section XI (1.a.) of the Order requires DuPont to limit exposure of C8 to no more than the 1 $\mu\text{g}/\text{m}^3$ screening level. The DAQ will require DuPont to limit its emissions, as determined by modeling, to no more than 1.0 microgram per cubic meter in ambient air as defined by 40 CFR Part 50.1 (e). Ambient Air is generally considered to include all areas outside the plant fence line or not otherwise subject to controlled access by DuPont. Compliance shall be demonstrated by use of Air Dispersion Modeling in accordance with Appendix W to 40 CFR Part 51 (Guidelines on Air Quality Models), on-site meteorology data (1996 or more recent calendar year), and the most current and quantifiable stack-specific annualized C8 emission rates as well as physical stack parameters.

The DAQ has conducted a preliminary modeling analysis of C8 emissions using adjusted calendar year 2000 stack-specific emissions data assuming representative values to account for increased stack height and control efficiency in the fine powder area and 1996 on-site meteorological data provided by DuPont. The results of this



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analysis indicate there is a potential for DuPont to exceed the standard if annual emissions of C8 are reallocated among the various emission sources in a manner which approaches the units' permitted allowable emission levels. Specifically, when operating at maximum permitted capacity, emission points 163-E11, 163-E26 and 242 could exceed the 1 $\mu\text{g}/\text{m}^3$ ground level screening standard.

In light of the foregoing, the reporting mechanism established in Section X.1. of the above referenced order has been determined insufficient for future C8 compliance demonstrations. The quarterly report specified in Section X.1. was developed as an aggregate, thus giving a total for several different operating units containing multiple emission points. In order for DAQ to be able to monitor compliance through air dispersion modeling to estimate concentrations of C8 around the Washington Works facility, it is imperative that DuPont report C8 emissions for each individual stack. This will eliminate needing to make any assumptions that the total amount of emissions were released entirely from select emission points, which could result in concentrations above the C8 screening level.

Therefore, DuPont shall submit to DAQ for approval a Monitoring, Record keeping and Reporting (MRR) Plan pursuant to GWR-2001-019 Section XIII "Additional Actions" in order to establish a practically enforceable means of demonstrating compliance with the C8 screening level.

Prior to implementing the MRR plan, an initial compliance demonstration shall be based on stack specific 2000 calendar year emission data, which incorporates control efficiency increases as well as modified stack configurations resulting from add-on controls/process improvements required by the above referenced order. Compliance with the C8 screening level will be determined by DAQ within 60 days of receiving updated process information via 45CSR13 permit application(s) to modify/update each affected process unit. The complete revised permit applications defining operational changes required by Consent Order GWR-2001-019 shall be submitted to DAQ no later than June 30, 2003.

DAQ's objective is to include all MRR requirements established pursuant to this letter, and thus Section XIII of the Order, within the facility's 45CSR30, Title V operating permit via the individual 45CSR13 permits. Thus a practically enforceable means of demonstrating compliance for future operations involving C8 at DuPont's Washington Works facility shall be obtained by incorporation of the MRR plan into DuPont's 45CSR13 construction and modification permits.

As DuPont is aware, the provisional screening level established by the CAT Team is directed at chronic exposure to the public. However, DAQ will conduct further investigation into the applicability of worker exposure guidelines for measures necessary to protect the general public outside the facility.

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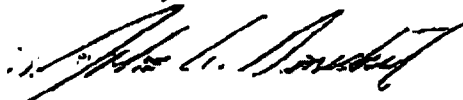
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The American Conference of Governmental Industrial Hygienists has determined a threshold limit value (TLV) for C8. TLVs are guidelines for use by industrial hygienists in making decisions regarding safe levels of exposure to chemicals in the workplace. The U.S. Occupational Safety and Health Administration (OSHA) has not developed a Permissible Emission Level (PEL) for C8. DAQ intends to seek information from a variety of sources, including OSHA, the National Institute of Occupational Safety and Health, the U.S. Environmental Protection Agency, and the Ohio Environmental Protection Agency in connection with this issue.

Sincerely,



John A. Benedict
Deputy Director

JAB

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