



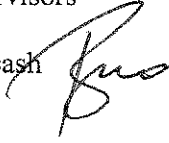
North Carolina Department of Environment and Natural Resources
Division of Air Quality

Beverly Eaves Perdue
Governor

B. Keith Overcash, P.E.
Director

Dee Freeman
Secretary

MEMORANDUM

TO: Regional Supervisors
FROM: B. Keith Overcash 
DATE: June 24, 2009
SUBJECT: Fugitive Dust Control Plans for Rock Quarries Pursuant to 15A NCAC 2D .0540(e)(1)

The North Carolina Division of Air Quality (NC DAQ) regulates the emissions of particulates from fugitive dust sources under 15A NCAC 2D .0540. Pursuant to subsection (e)(1) of this rule, the Director may require a facility to develop and submit a Fugitive Dust Control Plan if air dispersion modeling shows a potential for an exceedence of an ambient air quality standard for particulates. **As described below, effective immediately a Fugitive Dust Control Plan will be required for rock quarries that rely on fugitive dust emission controls to demonstrate their emissions will not exceed one or more ambient air quality standards for particulate.**

New and modified rock quarries in North Carolina are required to demonstrate that their emissions will not exceed the National Ambient Air Quality Standard (NAAQS) for particulate matter with an aerodynamic diameter of less than 10 micrograms (PM-10) and the State Ambient Air Quality Standard (SAAQS) for total suspended particulate (TSP). An affected facility may make this demonstration by either:

- Preparing and submitting a site-specific air dispersion model in accordance with the procedures in 15A NCAC 2D .1106; or,
- Accepting annual and daily production limitations that the NC DAQ has determined are sufficient to assure protection of the ambient standards.

Where a facility's site-specific air dispersion model relies on controlled fugitive dust emission factors to demonstrate compliance with the ambient standards, the facility will be required to develop and implement a Fugitive Dust Control Plan. Alternatively, if a facility's modeling demonstration does not rely on controls (i.e. the demonstration uses uncontrolled emission factors) for compliance, no Fugitive Dust Control Plan will be required pursuant to 15A NCAC 2D .0540(e)(1).

Additionally, where a decision is made to accept daily and annual production limitations, the facility in question will be required to develop and implement a Fugitive Dust Control Plan since these limitations are based upon models that relied on controlled emission factors. The production limitations, which vary by location of

equipment relative to the property boundary, were established by the NC DAQ through the use of extensive air dispersion modeling.¹

Affected quarries should submit the required Fugitive Dust Control Plan as part of any application that includes a site-specific air dispersion model for PM-10 and/or TSP or a request for daily or annual production limitations. At a minimum, Fugitive Dust Control Plans shall include each of the required elements listed in 15A NCAC 2D .0540(f). The NC DAQ will post a model Fugitive Dust Control Plan for rock quarries on its website (www.ncair.org/permits/) to assist affected quarries in developing a site-specific plan.

As provided in 15A NCAC 2D .0540(g), the Director is required to approve Fugitive Dust Control Plans. Regional Offices receiving such Plans should forward them to the Permitting Section at the Raleigh Central Office (RCO). The Permitting Section will coordinate with the Director's Office to review and approve or disapprove the plan within 30 days of receipt. The Director's office will re-visit this procedure after several plans have been fully reviewed and approved in the various Regional Offices to consider whether approval of these plans should be delegated to the Regional Supervisors.

CC: Lee Daniel
Don van der Vaart
Sheila Holman

¹ NOTE: The use of daily and annual production limitations to avoid site-specific monitoring is not available in the western portion of the state, where site-specific topography is relatively more important to ambient air quality standard compliance demonstrations.