



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Office of Air Quality Planning and Standards  
Research Triangle Park, North Carolina 27711

MAY 11 2000

MEMORANDUM

SUBJECT: Request for Concurrence to Use Existing Meteorological Data  
Base as On-Site for the Grassy Point Energy Project

FROM: Warren Peters, Environmental Engineer *Warren*  
Air Quality Modeling Group, EMAD (MD-14)

TO: Annamaria Colecchia, Environmental Scientist  
Permitting Section, Regional Office II

In response to your memorandum, dated April 28, 2000, the Model Clearinghouse has reviewed your proposal to use one year of meteorological data collected at the Bowline power plant as a surrogate for on-site data at the proposed Grassy Point power plant. We have examined the topography maps you provided and agree that there is no reason to believe that plume behavior from the Grassy Point location would be any different than plume behavior from the Bowline site. Thus, we agree with your assessment that the Bowline data is an appropriate surrogate and that maximum impact locations and magnitudes due to emissions from the Grassy Point plant should be accurately estimated. The only caution we have, and this is not affected by the choice of meteorological data, is that since the stack will apparently be below formula "Good Engineering Practice," a downwash assessment will be necessary.

Furthermore, as you point out, in order to address the Environmental Justice Executive Order, Region II is recommending that a combined impact of the Grassy Point facility and other neighboring facilities be assessed. We agree that the 100-meter data from Bowline would clearly be appropriate for estimating these combined impacts.

If you have any further questions, please contact me at (919) 541-5337.

cc: Joseph Tikvart, AQMG (MD-14)  
Dean Wilson, Dean Wilson & Associate  
Steve C. Riva, RO II