

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
SECRETARY'S SCIENCE ADVISORY BOARD ON TOXIC AIR POLLUTANTS
CHARTER

Effective control of the emissions of toxic air pollutants is essential to ensure adequate protection of human health and the environment. Since chemicals emitted into the air deemed to be toxic air pollutants are numerous and since ongoing and future toxicological studies might demonstrate the need for a change in the necessary level of control for some pollutants, and since additional toxic air pollutants may be introduced or discovered to be emitted into the air, it is therefore necessary to create a standing science advisory board to study the toxicological effects of toxic air pollutants and to advise the Environmental Management Commission as to the necessary level of control of those pollutants for protection of human health and the environment.

Section 1. Establishment

I hereby establish the Secretary's Science Advisory Board on Toxic Air Pollutants (herein referred to as the "Board") within the Department of Environment and Natural Resources. The Board shall be composed of seven voting members appointed by the Secretary to serve, at the pleasure of the Secretary, a term of four years, and may be re-appointed by the Secretary. The Secretary shall designate one of the members as Chair. The members appointed by the Secretary will be representative of academic institutions, the public and private sectors, and independent research facilities. The seven members of the Board will comprise the following qualifications in aggregate:

- (1) A minimum of one Doctoral level epidemiologist or public health scientist with strong background in biostatistics
- (2) A minimum of one Doctoral level toxicologist or public health scientist in the private sector who has at least five years of experience in the study of risk assessment.
- (3) A minimum of one Doctoral level toxicologist or epidemiologist employed by either State or Federal Government, who has had at least five years of experience in risk assessment.
- (4) A minimum of one Doctoral level scientist having a minimum of five years of experience in exposure assessment to toxic air pollutants.
- (5) A minimum of one licensed Medical Doctor whose current practice is in the field of occupational or environmental health.

Section II. Functions

- (1) The Board shall meet from time to time as called by the Secretary, or by the Director of the Division of Air Quality, or by the Science Advisory Board Chair.
- (2) The Board shall have the following duties:
 - (a) To perform studies and/or evaluations of matters concerning toxic air pollutants placed on their agenda by the Division of Air Quality, Toxics Protection Branch.

- (b) To advise the Environmental Management Commission on information concerning toxic air pollutants that comes to the attention of the Board.
- (c) To review the toxic effects of chemicals that are proposed to be regulated by the Division of Air Quality as toxic air pollutants and to recommend the necessity and/or urgency for controlling the emissions of such chemicals that are found to cause deleterious health effects to humans with priority given to the study of toxic air pollutants for which control has been deferred pending further study.
- (d) To act as consultants for the Division of Air Quality regarding determinations to regulate toxic air pollutants and in determining factors for establishing acceptable ambient levels for toxic air pollutants.
- (e) To recommend airborne concentrations of toxic air pollutants in a "range of risks" to the Director of the Division of Air Quality and to the Environmental Management Commission (EMC) for regulation that will minimize adverse health responses in the exposed citizenry and to advise the EMC of the scientific bases for these recommendations:
 - (1) Whether factors have been appropriately applied in an airborne concentration recommendation for a specific chemical.
 - (2) Whether chemical agents that have adverse reproductive and/or developmental effects should be treated with risk assessment values.
 - (3) Whether synergistic health effects of mixtures of toxic air pollutants should be considered with the acceptable ambient level guidelines.
 - (4) Whether and how airborne concentrations of toxic air pollutants should be adjusted when there are multiple sources of the same pollutant in a localized area.
 - (5) How uncertainties in each step of the risk assessment process can be incorporated into development and/or revision of airborne concentrations of toxic air pollutants.
- (f) To assist the Secretary in providing expertise to evaluate the airborne impact of exposure to hazardous air pollutants as a part of a task force that may be formed to investigate the multimedia (air, water, and soil) impacts of those pollutants.
- (g) To consider the establishment of airborne concentrations for carcinogenic air pollutants in cases where well designed human studies and/or data regarding mechanisms of action, pharmacokinetics, pharmacodynamics or species differences appear not to have been taken into account.
- (h) To assist the Division of Air Quality in reviewing excess emission requests from industrial facilities.

Section III. Administration

- (1) In support of the Science Advisory Board, a member of the Toxics Protection Branch staff will be designated as Liaison. Communication with the Science Advisory Board shall be through the Liaison.

- (2) Members of the Board will be reimbursed by the Division of Air Quality for necessary travel and subsistence expenses as authorized by North Carolina General Statute Section 138-5.

Section IV. Implementation and Duration

- (1) The Science Advisory Board shall be effective immediately.
- (2) This Board shall continue for an indefinite period at the pleasure of the Secretary.

Signed this the 6th day of October 2003

William G. Ross, Jr., Secretary,
Department of Environment and Natural Resources

