New York State Department of Civil Service
DIVISION OF CLASSIFICATION & COMPENSATION

Tentative Classification Standard

Occ. Code 1642200

Air Pollution Meteorologist 1, Grade 18	**1642200**
Air Pollution Meteorologist 2, Grade 22	**1642300**
Air Pollution Meteorologist 3, Grade 27	**1642500**

Brief Description of Class Series

Air Pollution Meteorologists review and analyze the impact of various types of air pollution sources such as combustion and cogeneration facilities, waste incinerators, and other toxic pollutants, on air quality and the environment. Incumbents monitor facilities with operating permits issued under Title V of the Clean Air Act.

These positions are classified only at the Department of Environmental Conservation (DEC).

Distinguishing Characteristics

Air Pollution Meteorologist 1: full performance level; reviews submitted dispersion modeling protocols; assists in modeling exercises to confirm results; and evaluates the adequacy of air quality and meteorological monitoring sites.

Air Pollution Meteorologist 2: advanced performance level and/or supervisory level; provides consultations and technical guidance to regulated community; and may supervise Air Pollution Meteorologists 1.

Air Pollution Meteorologist 3: supervises lower-level Air Pollution Meteorologists, and other technicians assigned to support the program; manages the activities of the agency's Impact Assessment and Meteorology Unit.

Illustrative Duties

Air Pollution Meteorologist 1: evaluates and forecasts atmospheric air pollution and weather-related phenomena; assists in providing daily air quality forecasts and issuing air quality health advisories; provides weather information to assist authorities in emergency operations for weather-related problems; interprets federal and State air pollution rules and regulations for applicability of air quality impact assessment by using established mathematical models; assists with the review of air quality dispersion

modeling protocols and reports submitted by facilities applying for Title V and Air State Facility permits; evaluates the adequacy of monitoring sites for studies in progress; assists in the preparation of reports; assists in performing air dispersion modeling for various applications, including air trajectory calculations for emergency response and accidental release situations; reviews and assists in the implementation of technological developments in air pollution meteorology and mathematical modeling; and participates in training programs.

Air Pollution Meteorologist 2: evaluates, interprets, and forecasts atmospheric air pollution; provides guidance through weather forecasting for statewide weather related emergency operations and air quality health advisories; analyzes, assesses, and evaluates air quality impact of pollutant sources; prepares testimony and participates in public hearings; provides technical input for the preparation of legal briefs, and technical consultation to industry and other government agencies; provides technical guidance and training to lower-level staff on Environmental Protection Agency modeling guidelines; reviews technological developments in air pollution meteorology and mathematical modeling; participates in federal and inter-agency training programs; independently prepares reports; and trains lower-level staff.

Air Pollution Meteorologist 3: supervises Air Pollution Meteorologists 1 and 2; leads presentations for large groups during emergency situations; monitors changes to federal Title V guidelines and ensures that staff are trained on new regulations and models; reviews reports prepared by lower level staff; prepares and reviews legal briefs; directs the operation of alert and warning systems for unusual or high air pollution episodes; evaluates and selects all meteorological testing equipment, hardware, and software used in air pollution control, modeling, and simulations; coordinates all meteorological activities with other professionals in the field of air resources; recommends dispersion modeling procedures for conducting ambient impact analyses to permit applicants; provides guidelines for the development of modeling protocols submitted for review and approval by the agency prior to the submission of modeling analysis; determines when air quality dispersion modeling is required to support Prevention of Significant Deterioration, State or Title V permit applications and related actions, or when it is required to support actions under the State Environmental Quality Review Act (SEQRA) such as the impacts from toxic emission sources, environmental justice assessments, and the Department's policy on fine particulate matter; and establishes goals and priorities for effective monitoring of regulated facilities related to air pollution meteorology.

Minimum Qualifications

Air Pollution Meteorologist 1

Open Competitive: a bachelor's degree in meteorology, atmospheric science, climate science, environmental engineering or science, environmental studies, physics, mathematical sciences, or physical sciences, which must include or be supplemented

by 21 semester credit hours in meteorology or atmospheric science and either completion of a two-year traineeship, or two years of experience in the field of meteorology or atmospheric science, directly related to air pollution. A master's degree or higher in a qualifying field may substitute for one year of the required experience.

Air Pollution Meteorologist 2

Open Competitive: a bachelor's degree in meteorology, atmospheric science, climate science, environmental engineering or science, environmental studies, physics, mathematical sciences, or physical sciences, which must include or be supplemented by 21 semester credit hours in meteorology or atmospheric science and three years of experience in the field of meteorology or atmospheric science, directly related to air pollution. A master's degree or higher in a qualifying field may substitute for one year of the required experience.

Promotion: one year of service as an Air Pollution Meteorologist 1.

Air Pollution Meteorologist 3

Promotion: one year of service as an Air Pollution Meteorologist 2.

Note: Classification Standards illustrate the nature, extent, and scope of duties and responsibilities of the classes they describe. Standards cannot and do not include all the work that might be appropriately performed by a class. The minimum qualifications above are those required for appointment at the time the Classification Standard was written. Please contact the Division of Staffing Services for current information on minimum requirements for appointment or examination.

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