

CITY OF CHATTANOOGA

Classification Specification Title: Engineer 2 (APCB)

Department: Air Pollution Control Bureau

Pay Grade: GS.12

Supervision Received From: Manager Engineering

FLSA Status: Exempt

Supervisory Responsibility For: None

Established: 6/29/07

Revision Dates: 4/2/25;

9/5/24; 11/05/07

CLASSIFICATION SUMMARY:

Incumbents in this classification are responsible for performing advanced professional engineering duties in evaluating industrial and commercial air emission sources (including larger and more complex sources) for regulatory compliance. Responsibilities include inspecting air emissions sources, evaluating industry permit applications, investigating air pollution complaints, writing detailed inspection reports and memoranda, determining appropriate methods for calculating air pollutant emissions and conducting modeling of ambient air pollutant concentrations.

These responsibilities involve extensive contact with regulatory agency officials and industry representatives to ensure that applicable ordinances, standards and regulations relating to air pollution control are properly enforced. Work requires limited supervision and the use of independent judgment and discretion.

SERIES LEVEL:

The Air Pollution Control Engineer 2 is the third level of a four-level air pollution control series.

ESSENTIAL FUNCTIONS:

(The following duties ARE NOT intended to serve as a comprehensive list of all duties performed by all employees in this classification, only a representative summary of the primary duties and responsibilities. Incumbent(s) may not be required to perform all duties listed and may be required to perform additional, position-specific duties.)

Calculates actual, potential and allowable air pollutant emissions using appropriate methods, source parameters and regulatory limitations; conducts research related to engineering, regulatory and industrial engineering requirements to determine appropriate emission calculation methods, emission control strategies and pollutant hazards; and uses screening and available refined air-dispersion modeling software to estimate ambient air pollutant concentrations resulting from emissions to determine health and environmental impacts.

Prepares air pollution permits for industrial and commercial sources (including larger and more complex sources) that include enforceable conditions, emission limitations and operating parameter constraints that conform to applicable federal and local regulations and evaluates permit applications for accuracy, completeness and validity.

Prepares detailed technical reports related to air pollutant emissions from existing, modified and proposed industrial and commercial sources (including larger and more complex sources) which includes conducting inspection observations; writing detailed industrial process descriptions; evaluating emission control strategies; performing health and environmental impact analyses;

preparing emission calculations and developing appropriate methodologies; conducting federal and local regulatory assessments; recommending enforcement actions; negotiating and writing emissions test agreements and performing other related activities.

Researches and reviews federal and local air pollution control regulations to determine applicability to industrial sources.

Conducts site inspections of industrial and commercial sources (including larger and more complex sources) of air pollutant emissions to determine compliance with applicable regulations and permit requirements; observes process equipment and air pollution control equipment and records applicable operating parameters; reviews records and logs required by permit; visually quantifies opacity of emissions and coordinates and supervises emission testing.

Investigates complaints and malfunctions of industrial and commercial sources of air pollutant emissions and recommends corrective measures and enforcement actions; maintains a database of industrial sources that includes pollutant emissions, emission source parameters and compliance information.

Participates in conferences, workshops, and training as necessary.

Participates in meetings with regulatory agency officials, including as the official representative or designee of the Engineering Manager or Executive Director.

Assists the Engineering Manager and Executive Director in responding to information requests from regulatory agency officials.

Assists the Engineering Manager and Executive Director in the development and planning of permitting, compliance and enforcement strategies.

Performs other duties as assigned.

DEPARTMENT SPECIFIC DUTIES (if any):

MINIMUM QUALIFICATIONS:

Bachelor's Degree in Mechanical, Chemical, Civil or Environmental Engineering and four (4) years previous work experience in process engineering and/or regulatory compliance.

LICENSING AND CERTIFICATIONS:

Valid Driver's License

Professional Engineer License

Professional Engineer License must be issued in the State of Tennessee

Visible Emissions Evaluation Certification

KNOWLEDGE AND SKILLS:

Knowledge of permitting principles and processes; environmental, chemical, mechanical and civil engineering principles; air pollutant properties; applicable commercial and industrial processes; air pollutants and emissions; air pollution control strategies for industrial processes; applicable Federal, State and Local laws, ordinances, codes, rules and regulations; air pollution enforcement strategies; air pollutant emission factors; environmental information sources;

advanced mathematical concepts; GPS equipment operations and utilization; emission sampling and collection equipment and public relations principles.

Skill in preparing air pollution permits for industrial sources; performing mathematical calculations; conducting regulatory research; conducting investigations on potential air pollutant violations; maintaining databases; conducting research; preparing technical reports; utilizing and evaluating the results of air dispersion modeling; evaluating air pollutant sampling and analysis procedures; collecting and analyzing air pollutants and emissions and communication and interpersonal skills as applied to interaction with coworkers, supervisor, and the general public, sufficient to exchange or convey information and to receive work direction.

PHYSICAL DEMANDS:

Positions in this class typically require climbing, balancing, stooping, kneeling, crouching, reaching, standing, walking, fingering, grasping, talking, hearing, seeing, and repetitive motions.

WORK ENVIRONMENT:

Light Work: Exerting up to 20 pounds of force occasionally and/or up to 10 pounds of force frequently and/or negligible amount of force constantly to move objects. If the use of arm and/or leg controls requires exertion of forces greater than that for Sedentary Work and the worker sits most of the time, the job is rated for Light Work. Incumbents may be subjected to working in high places, in the vicinity of moving mechanical parts, and in the presence of vibrations, fumes, odors, dusts and hot or cold temperatures.

SPECIAL REQUIREMENTS:

Safety Sensitive: N

Department of Transportation - CDL: N

Child Sensitive: N

The City of Chattanooga, Tennessee, is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the City will provide reasonable accommodations to qualified individuals with disabilities and encourage both prospective and current employees to discuss potential accommodations with the employer.