

Air Management Programs

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TABLE OF CONTENTS

Introduction	1
Overview of Federal Clean Air Act Requirements	1
Department of Natural Resources Air Management Organizational Structure	1
National Ambient Air Quality Standards and Nonattainment Areas	2
State Implementation Plans	6
Types of Pollutant Sources	8
DNR Revenues and Expenditures	10
Air Emissions Reporting	13
Air Construction Permits and Fees	13
Air Operation Permits and Fees	17
Other Air Permits and Fees Administered by DNR	27
Air Monitoring Activities	29
Compliance and Enforcement	
Other Regulated Pollutants	
Other DNR Activities	
Department of Transportation Activities	

Air Management Programs

Introduction

The federal Clean Air Act and Clean Air Act Amendments of 1990 established air pollution control requirements that states must implement over many years. The U.S. Environmental Protection Agency (EPA) is responsible for federal implementation of the Clean Air Act.

The Wisconsin Department of Natural Resources (DNR) is responsible for development and oversight of the state's programs to comply with federal requirements. DNR is provided authority to conduct air quality programs under Chapter 285 of the statutes and under administrative rules in the NR 400 series. The Department of Transportation (DOT) administers certain provisions regarding vehicle inspections and other transportation control measures.

This paper provides an overview of the major federal provisions that affect Wisconsin, a discussion of actions required of the state, and the state's plans and programs for meeting federal clean air requirements. The paper describes the air management activities of the DNR, including to: (a) develop and implement state implementation plans that outline the measures the state will take to reduce emissions of ozone, particulate matter, and other air pollutants, in compliance with federal requirements; (b) issue permits to construct new and operate existing sources of air emissions, and assess fees to assist in administration of the program; (c) perform compliance and monitoring activities of air pollutant sources; (d) monitor air quality across the state; and (e) administer other air management programs. It describes funding sources and expenditures for DNR air management programs. The state's programs are funded with a combination of federal revenues, state-assessed program revenue fees, and state segregated revenues.

Overview of Federal Clean Air Act Requirements

The federal Clean Air Act requires EPA to establish air quality standards for various air pollutants, especially ozone and particulate matter, and to designate areas in states that do not meet the standards. These areas are called "nonattainment areas." States are required to develop, submit to EPA, and implement a series of plans describing the programs and controls the state will utilize to reduce emissions and attain specific air quality levels by established dates or risk further federal requirements and eventually sanctions.

The Clean Air Act also established programs to: (a) create stricter standards on emissions from motor vehicles (mobile sources); (b) use alternative clean fuels; (c) create additional controls on air emissions at industrial facilities (stationary sources); (d) establish other air emission control measures for power plants, stationary engines at industrial facilities, small nonroad engines, and sources that are too small to regulate individually; and (e) regulate emissions of other hazardous air pollutants.

The Clean Air Act requires states to implement a permit program for certain stationary sources of emissions of air pollutants, especially power plants and large industrial facilities. States are also required to implement programs to reduce emissions of other hazardous air pollutants.

Department of Natural Resources Air Management Organizational Structure

The implementation of air quality programs in

Wisconsin is conducted by the Department of Natural Resources (DNR) Bureau of Air Management in the Environmental Management Division, as well as staff in the DNR regional offices and support from staff in the Department's other programs. Air management staff in the five DNR regions perform permit review and issuance for new construction and existing sources, stack emission test plan approval, compliance inspections and enforcement, complaint investigation, inspection of asbestos demolition and renovation, and inventory of industrial source emissions.

The Bureau of Air Management consists of five sections in the central office in Madison. The five sections are: (a) the Compliance, Enforcement, and Emission Inventory Section coordinates the program's efforts to ensure that industry and others comply with clean air laws, manages DNR's process of obtaining annual reports of air emissions and related fees, and coordinates DNR's efforts related to asbestos abatement and small sources emissions; (b) the Monitoring Section plans and executes a program of monitoring ambient air quality statewide, provides support for air quality forecasting, and tracks emerging issues; (c) the Permits and Stationary Source Modeling Section writes construction and operation permits for air pollution sources, negotiates permit conditions with industry representatives, and analyzes computer modeling to determine how air pollutant emissions will affect air quality; (d) the Air Quality Planning and Standards Section develops state implementation plans for major air pollutants such as ozone and particulate matter, develops plans and implements programs related to motor vehicles and motor vehicle fuels, performs air quality forecasting, and administers diesel grant programs; and (e) the Business Support and Information Technology Section prepares and tracks budgets and work plans, administers grants, provides rule oversight, performs outreach and communication, handles finance and data management, and provides support to program mangers on personnel management.

The Air Management program also has seven statewide teams to ensure consistency, monitor and evaluate program performance, involve DNR staff statewide and make policy recommendations related to the specific functions of the team. The teams include: (a) construction (new source review) permits; (b) operation permits; (c) compliance and enforcement; (d) stationary source modeling; (e) monitoring quality assurance; (f) monitoring field operations; and (g) monitoring technical support.

DNR occasionally convenes public meetings to obtain input from potentially affected parties and agencies involved in the state's effort to meet federal air quality requirements. The Department also convenes an Air Management Study Group appointed by the DNR Secretary to discuss issues related to the state's efforts to meet federal air requirements. The Air Management program also holds informational meetings on certain significant or controversial issues or proposed administrative rules.

National Ambient Air Quality Standards and Nonattainment Areas

Federal Standards

Under the Clean Air Act, EPA establishes national ambient air quality standards (NAAQS) based on scientific determinations of the threshold levels of air contaminants that will protect public health with an adequate margin of safety. Ambient air standards relate to the quality of the air people breathe. In comparison, emission limits relate to the quality of the air emitted from a pollution source.

Under ambient air standards, the concentration of pollution below the standards is considered acceptable. The standards are set based on the amount of time of exposure, in recognition that individuals can tolerate higher levels of exposure to pollutants for short periods of time compared to prolonged exposure. Where air pollution exceeds the standards, EPA requires states to establish plans to reduce air emissions sufficiently to improve air quality to meet and maintain the ambient air quality standard. In addition, where the standards are met, the Clean Air Act includes requirements for some pollutants in order to prevent the deterioration of air quality. EPA is required to review the science supporting the national ambient air quality standards every five years and either propose changes or recommend that no changes be made.

Criteria Pollutants

EPA has adopted NAAQS for six "criteria pollutants," including ozone, sulfur dioxide, nitrogen dioxide, particulate matter (solid or liquid matter suspended in the atmosphere), carbon monoxide and lead.

Ozone. Ozone is a gas composed of three oxygen atoms that, at ground level, is a primary component of smog. Smog is a persistent urban pollution and health problem. Air pollution sources do not directly emit ozone, but do emit air contaminants that are precursors to ozone. Ozone is created by a chemical reaction between nitrogen oxides (NO_x) and volatile organic compounds (VOCs), which react in sunlight on hot days to create ozone.

Major sources of ozone formation are large industrial facilities, electric utilities, motor vehicles and a variety of small sources that in total result in sizeable emissions. Individuals exposed to high ozone concentrations may experience a significant health risk, especially the elderly, young children, and people with respiratory difficulties. Health studies have shown exposure to moderate levels of ozone causes increased respiratory problems, such as asthma and emphysema, and leads to permanent changes in lung structure. Ozone can also damage crops, trees, rubber, fabrics and other materials. Sulfur Dioxide. Major sources of sulfur dioxide (SO_2) are power plants, industrial facilities, and heavy equipment and vehicles that burn fuel with a high sulfur content. SO_2 is a component of acid rain. Acid rain is formed when emissions of sulfur dioxide and nitrogen oxides undergo chemical changes in the atmosphere and return to the earth's surface as acidic compounds, which causes damage to lakes, forests, other ecosystems and buildings.

Volatile Organic Compounds. VOCs, while not listed as criteria air pollutants, have been targeted by EPA and states for reduction as part of smog control efforts. VOCs include a number of chemicals that are emitted as gases from certain solids and liquids. Major sources of VOC emissions are solvents used by industry and households, residential wood consumption, nonroad equipment, and motor vehicles.

Nitrogen Oxides. Major sources of nitrogen oxides (NO_x) are power plants, factories, other industrial combustion sources and automobiles. The criteria pollutant nitrogen dioxide is one type of NO_x . In addition to being a component of ozone, NO_x is a component of particulate matter and acid rain.

Particulate Matter. Particulate matter is also called haze, dust, smoke, or soot. It consists of minute pieces of solid particles and liquid droplets. Particulate matter can enter the lungs through the mouth and nose and cause negative health effects.

There are two categories of particulate matter. Inhalable coarse particles, known as PM10, include particles that have aerodynamic diameters (term for measuring the diameter of an irregularly shaped particle) less than or equal to 10 micrometers in diameter. PM10 particles can cause nose and throat irritation and bronchitis, respiratory and cardiovascular problems for susceptible people. (A micrometer, also known as a micron, is 1/1000th of a millimeter. There are 25,400 micrometers in an inch. A human hair is approximately 70 micrometers in diameter.) PM10 usually results from actions such as crushing, grinding, or agricultural plowing, or from wind-blown dust.

Fine particles, known as PM2.5, are 2.5 micrometers or smaller in diameter, and can penetrate more deeply into the lungs compared to larger particles. EPA studies have showed that fine particles are more likely than coarse particles to contribute to health effects such as premature deaths and hospital admissions, and at lower concentrations than allowed by the PM10 standards. Fine particles, such as those found in smoke or haze, can be emitted in forest fires, or can form through chemical processes when gases emitted from power plants, certain industries, and automobiles react in the air.

Nonattainment Areas

EPA designates areas as "nonattainment" for a specific pollutant if the area fails to meet the NAAQS for the pollutant. Almost all major urban areas experience periods when concentrations of air pollutants exceed one or more NAAQS during certain times of the day or year. Areas that are designated as nonattainment must take actions to reduce emissions of the specific pollutant. The more severe the air quality problem, the more control measures a nonattainment area must implement. States must identify and implement additional controls if the measures required by the Clean Air Act do not achieve required standards. States and areas that do not achieve air quality standards by the applicable attainment date face penalties and additional mandatory requirements.

States are required to develop state implementation plans (SIPs), with a component called an attainment demonstration, that identify steps the state is taking to bring nonattainment areas into attainment of NAAQS by required deadlines. If the state's nonattainment areas fail to attain the national standard by the required deadline, the state must submit a revised state implementation plan prescribing control measures necessary to meet the air quality standards, including measures prescribed by EPA. This is discussed in a later section on state implementation plan requirements.

Currently, ozone, PM2.5, and sulfur dioxide are air contaminants for which some Wisconsin counties have been or are in nonattainment. Background on the standards and nonattainment designations issued prior to 2017 can be found in the 2017 Legislative Fiscal Bureau Informational Paper #66 entitled, "Air Management Programs."

Ozone Attainment

An area is considered in nonattainment for ozone if a violation of the ozone standard occurs within the area. EPA determines the boundaries of the region on the basis of demonstrated air quality monitoring data.

EPA issued ozone standards in 1978, 1997, 2008, and 2015. In Wisconsin, Sheboygan County and the portion of Kenosha County east of Interstate 94 are marginal nonattainment areas for the 2008 eight-hour ozone standard.

In October, 2015, EPA issued the current eighthour ozone standard of 0.07 parts per million (ppm), or 70 parts per billion (ppb). EPA issued final designations of nonattainment areas on May 1, 2018, effective on August 3, 2018. The areas follow a contour along the Lake Michigan shoreline, were designated according to road boundaries, and include portions of Door, Manitowoc, Sheboygan, Ozaukee, Milwaukee, and Kenosha Counties. EPA designated these areas as marginal nonattainment. These areas will be required to attain the 2015 ozone standards by August 3, 2021, three years after the effective date of the designation. Permits issued for facilities in these areas would require more stringent emissions limits for NOx and VOCs. Detailed descriptions of the boundaries of the nonattainment areas are available on the DNR website.

Particulate Matter Attainment

EPA made initial designations of PM10 nonattainment areas in 1991, designating all of

Wisconsin as attainment. EPA has not changed the Wisconsin designation for PM10 since then. The PM10 standard in effect since 1997 is a 24-hour average of 150 micrograms per cubic meter.

EPA established standards for PM2.5 in 1997, 2006, and 2012. EPA requires states to establish monitoring sites and collect data on fine particulate matter. EPA specifies the types of data that states must collect. EPA uses the data to determine whether an area is to be designated as nonattainment.

In December, 2012, EPA revised the PM2.5 annual average standard to 12 micrograms per cubic meter, and retained the 24-hour average threshold of 35 micrograms per cubic meter. In December, 2014, EPA issued final designations of attainment areas for the 2012 annual PM2.5 standard, and classified all of Wisconsin as attainment. DNR promulgated administrative rule changes effective January 1, 2018, to adopt the federal 2012 PM2.5 standards.

Sulfur Dioxide Attainment

In 2010, EPA established a sulfur dioxide (SO₂) one-hour standard of 0.075 ppm (75 ppb). In 2013, EPA designated a portion of Oneida County as nonattainment, including the City of Rhinelander and nearby areas. DNR submitted an attainment demonstration for Oneida County to EPA on January 22, 2016, which is still under review by EPA. EPA plans to make a decision on designation of Outagamie County by December 31, 2020. The remaining areas of Wisconsin are designated as attainment. DNR promulgated administrative rule changes to adopt the federal SO₂ standards, effective August 1, 2016.

State Requirements

If EPA adopts an air quality standard, states are required to adopt the standard, and Wisconsin statutes require DNR to promulgate by administrative rule a similar standard. The statutes specify the state standard may not be more restrictive than the federal standard.

If EPA modifies an air quality standard that was in effect in 1980, statutes require DNR to modify the corresponding state standards unless the Department finds that the modified standard would not provide adequate protection for public health and welfare. DNR is only allowed to make this finding if the finding is supported with written documentation that includes specific information related to: (a) a public health risk assessment; (b) an analysis of population groups subjected to the air contaminant; (c) an evaluation of options for managing the risk; and (d) a comparison of the proposed standard with standards in Illinois, Indiana, Michigan, Minnesota, and Ohio.

If EPA does not adopt an air quality standard for an air contaminant, DNR may promulgate a state ambient air quality standard if the Department finds the standard is needed to provide adequate protection for public health or welfare, and if DNR provides specific written documentation to support its finding, including the four components described above.

State statutes specify that DNR may not identify a county as part of a nonattainment area under the Clean Air Act if the atmospheric concentration of an air contaminant in that county does not exceed the ambient air quality standard, unless the county is required to be designated under the Clean Air Act. For example, if the Clean Air Act requires that all of a metropolitan statistical area must be designated, a county within the metropolitan area might not have air quality standard exceedences, but might have to be identified as part of a federal nonattainment area.

Statutes require that when DNR issues documents that define or list specific nonattainment areas or that recommend that areas be designated as nonattainment areas, the Department must first hold a public hearing and receive public comment. DNR may not issue the documents related to the nonattainment areas until at least 30 days after the public hearing.

Statutes require that, at least 60 days before the Governor is required to make a submission to EPA on a nonattainment designation, DNR must provide a report to the Legislature's committees on the environment. The report must contain a description of the proposed nonattainment area and supporting documentation. DNR must respond to any comments from the legislative committees, but legislative approval is not required before DNR issues its list or recommendation, or before the Governor makes a submission to EPA. On December 20, 2017, DNR submitted to the Legislature a proposed request to EPA for redesignation of Sheboygan County to attainment of the 2008 ozone standard, before submitting the request to EPA on February 20, 2018.

State Implementation Plans

Federal Requirements

The Clean Air Act requires states to achieve compliance NAAQS through the development of, and revisions to, a "state implementation plan" (SIP). The SIP is a series of documents and regulations that identify the measures a state is taking to control emissions of regulated pollutants. The SIP must also demonstrate how these measures will allow the state to attain air quality standards by specified deadlines for each classification of nonattainment. Areas with worse air quality classification have to implement more controls.

The SIP must include provisions for: (a) enforceable emissions limitations; (b) air quality monitoring programs; (c) an air permit program and fees to cover the cost of permitting; (d) prohibition of emissions that contribute significantly to nonattainment of an air quality standard or deterioration of air quality; (e) applicable controls on interstate air pollution transport; (f) demonstration of adequate personnel, funding, and state statutory authority; (g) requirements for monitoring by stationary sources; (h) enforcement authority and procedures; (i) procedures for revising the plan; (j) requirements for consultation and notification of local governments; and (k) air quality modeling to predict the effect of air emissions on air quality standards.

The Clean Air Act contains specific deadlines for submission of the plans and EPA approval. If the state does not meet required deadlines, the state can be subject to further federal requirements and eventually sanctions.

States are required to submit rate-of-progress state implementation plan revisions to EPA at various time intervals to demonstrate the state has achieved required milestones for achieving required emissions reductions.

Sanctions for Deficient State Implementation Plans

If a state does not submit a required SIP or submits a SIP that is judged to be inadequate, EPA may impose sanctions on the state. Under certain circumstances, if the state fails to submit a SIP demonstrating attainment of an ambient air quality standard, the Clean Air Act requires EPA to impose sanctions on the state. If a state does not rectify its SIP situation and sanctions are enacted, EPA develops a federal implementation plan to move the state toward attainment. In general, if EPA finds a SIP submittal incomplete, the state is given 18 months to correct the submittal before federal sanctions begin, and sanctions would apply until the plan deficiency is corrected.

Sanctions include: (a) a requirement that new industrial projects provide emission offsets at a ratio of up to two tons of emission reductions to one ton of new emission increases; (b) the withholding of federal highway aids, except for: (1) projects principally for safety improvements and (2) a specific list of project types that have a secondary impact of reducing vehicle emissions; and (c) EPA implementation and enforcement of a federal implementation plan (FIP) in place of the state plan or portions of plan determined to be deficient.

On March 6, 2017, EPA issued a finding that Wisconsin failed to make a required SIP submission to meet certain requirements of the nonattainment new source review permitting program for the 2008 ozone NAAQS. DNR submitted the SIP to EPA on July 19, 2018, and EPA found the submittal to be complete on August 2, 2018. It is anticipated EPA will take a future final action to approve the SIP submittal.

Wisconsin Actions

Wisconsin has submitted a series of revisions or modifications to the state implementation plan (SIP) to EPA in accordance with a series of federal requirements. DNR continually develops plans and promulgates rules to implement the SIP. To respond to federal requirements that nonattainment areas include more controls on emissions, Wisconsin's SIP has placed more stringent controls on ozone precursor emissions in the state's ozone nonattainment counties.

Wisconsin's SIP addresses ozone, particulate matter, regional haze, and emissions of other regulated pollutants. The state submitted SIP components to EPA in 2017 and 2018 that include: (a) an attainment plan for the Kenosha County portion of the Chicago, Illinois, 2008 ozone standard nonattainment area; (b) an attainment plan for the Sheboygan County 2008 ozone standard nonattainment area; (c) a regional haze five-year progress report; (d) a request to redesignate the Sheboygan County nonattainment area as attainment; and (e) information related to the state's nonattainment new source review permitting program for the 2008 ozone standards.

Under Wisconsin statutes, DNR is required to adopt revisions to the SIP that conform to the

Clean Air Act. The state SIP may vary from the federal requirements if the Governor determines that: (a) the measures are part of an interstate ozone control strategy; or (b) the measures are necessary to comply with percentage emission reductions required under the Clean Air Act.

State statutes specify that DNR may not submit a state implementation plan to EPA that includes a control measure or strategy that imposes or may result in regulatory requirements unless the Department has first promulgated the control measure or strategy as an administrative rule. DNR must submit a state implementation plan and a report describing the plan to the Legislature's environmental committees for review at least 60 days before the Department is required to submit the SIP to EPA. DNR is required to respond to any comments from the legislative committees but legislative approval is not required before DNR issues its list or recommendation, or before the Governor makes a submission to EPA.

The statutes authorize DNR to use the administrative rule process to develop and implement SIP modifications. Examples of DNR rules related to the SIP process include changes related to: (a) permitting requirements; (b) fee assessment; (c) technology standards applied to stationary sources; (d) standards applied to mobile sources; (e) area source controls; and (f) monitoring requirements.

DNR uses extensive computer modeling to develop portions of the SIP, identify the mix of controls and programs most effective in reducing emissions, move the state toward attaining air quality standards, and bring the state's nonattainment areas into attainment by federal deadlines.

States are required to regularly demonstrate to EPA that they are making specified progress to achieve compliance with emissions reductions requirements. DNR has submitted a series of rateof-progress SIP revisions to EPA, which demonstrated the state had achieved required milestones of reducing emissions from stationary, mobile and area sources.

DNR submitted an attainment plan to EPA for Kenosha County on April 4, 2017, and for Sheboygan County on September 25, 2017, to address requirements for these counties under the 2008 standards. Both plans stated that the two counties demonstrated the required 15% reductions for VOCs from the 2011 baseline year to the 2017 attainment year. EPA proposed approval of the Kenosha County plan on August 16, 2018. It is anticipated EPA will take future action to approve the plan. In the fall of 2018, EPA was reviewing the Sheboygan County plan.

EPA regional haze regulations promulgated in 1999 are intended to reduce emissions affecting air quality in national parks and wilderness areas. DNR submitted a five-year progress report for Wisconsin's regional haze SIP to EPA on March 17, 2017, and EPA approved it on June 15, 2018. Wisconsin is also required to submit a new 10-year regional haze SIP by July, 2021.

DNR was required to submit a SIP to EPA by October 1, 2018, describing how DNR has sufficient statutory and rule authority and resources to implement, maintain, and enforce the 2015 ozone standards. DNR submitted this SIP on September 14, 2018. In the fall of 2018, EPA was reviewing the DNR submission.

After EPA issues rules describing what states have to do to implement the 2015 ozone standards, DNR will be required to submit SIP components related to motor vehicle emissions, emissions inventories, and nonattainment area new source review. As of the fall of 2018, EPA was developing deadlines for these submissions.

Interstate Cooperative Efforts

Wisconsin works with neighboring states to study regional air quality issues and to respond to issues related to the transport of emissions by wind from one area to another. Regional transport of air pollutants can be partially responsible for violations of air quality standards in other areas of the country.

The Lake Michigan Air Directors Consortium (LADCO) is an organization of Wisconsin, Illinois, Indiana, Michigan, Ohio, and Minnesota that studies regional ozone pollution and how best to control it in the Lake Michigan region. LADCO consists of a Board of Directors (the state air program directors), a technical staff, and several workgroups. The member states and LADCO staff cooperate on technical assessments and studies of regional air quality problems such as ozone, fine particles, regional haze and air toxics. LADCO also provides a forum for the states to discuss regional air quality issues.

In 2017 and 2018, Wisconsin worked with LADCO, federally-recognized Indian tribes, the U.S. National Park Service, the U.S. Forest Service, and the U.S. Fish and Wildlife Service to address issues related to regional haze and ozone transport for the 2015 ozone standards. LADCO also provided technical assistance for Wisconsin's attainment plans.

Types of Pollutant Sources

Pollutant sources are generally grouped into categories based on the characteristic of the pollutant source. The Clean Air Act establishes different control mechanisms for each type of source, and in some cases, subdivides the source for purposes of setting control requirements. The categories of pollutant sources include stationary, mobile, and area sources, and nonroad engines.

Stationary Sources

Stationary sources generally include fixed sources of pollution, such as factories, power plants, and other business facilities. Many of the Clean Air Act requirements for stationary sources apply only to those facilities that emit pollutants in amounts greater than a certain quantity.

Larger potential emitters of pollutants are referred to as major sources, and often emit substantial quantities of air contaminants such as sulfur dioxide and nitrogen oxide. The definition of a major source varies with the pollutant and the severity of the pollution in the area in which the facility is located. For example, a facility emitting 50 tons per year of a pollutant in a highly polluted area may be a major source subject to regulation, but the same facility located in a less polluted area may not have to meet regulatory requirements as stringent as the same source would have to meet in a nonattainment area. Minor stationary sources include all facilities not categorized as a major source. Major sources are the primary facilities subject to the requirements of the Act, although provisions exist for the application of restrictions to minor sources in certain cases.

A primary requirement for existing stationary sources in nonattainment areas is the installation or retrofit of equipment with emission controls. A determination of what controls are required may be made on a case-by-case review of each facility. EPA has adopted guidelines setting a generic method of controls that will meet the requirements for specified industrial categories. The facilities that must install control equipment are determined based on: (a) the amount of pollution emitted by the facility; (b) the severity of the pollution problem in the nonattainment area; and (c) the industrial category of the facility. The emission limits are referred to as reasonably available control technology (RACT).

Mobile Sources

Mobile sources generally include any motor vehicle equipment that is capable of emitting any air pollutant while moving. Mobile sources include highway vehicles such as automobiles, buses, trucks, and motorcycles. Although emissions controls programs have been implemented, mobile sources of air pollution continue to be the largest single source of ozone-forming pollutants and carbon monoxide emissions.

The Clean Air Act includes requirements for fuel content in polluted areas, new emission standards for vehicles and transportation control measures. Vehicular pollution control provisions include: (a) more stringent emission standards for automobiles, trucks and urban buses; (b) cleanfueled vehicle standards for fleets and cars in the most polluted areas; (c) required use of reformulated gasoline; and (d) vehicle emission inspection and repair requirements.

Under federal law, in the most severely polluted areas, gasoline sold for vehicle use must be modified to reduce emissions. Federal law requires use of reformulated gasoline (RFG) in areas of the state experiencing significant ozone problems. The fuel must provide specified year-round reductions in emissions of toxic air pollutants and summertime reductions in VOCs and NO_x. The components of RFG must meet certain refining and processing requirements.

In Wisconsin, the six counties of Kenosha, Milwaukee, Ozaukee, Racine, Washington, and Waukesha are subject to the reformulated gasoline requirements. The RFG requirement did not end when the counties achieved attainment of the 1997 ozone standard because the Clean Air Act amendments specifically require the use of RFG in the Milwaukee-Racine Consolidated Metropolitan Statistical Area.

The Clean Air Act requires certain centrally fueled fleets of 10 or more motor vehicles to operate clean-fuel vehicles and use clean fuels. This involves the use of vehicles that meet certified lowemission vehicle emission standards.

EPA has adopted, and continues to develop, regulations for tailpipe and evaporative emissions from vehicles, including: (a) use of ultra-low sulfur

diesel fuel in heavy-duty diesel engines for highway vehicles; (b) greenhouse gas emission standards for new passenger cars, light-duty trucks, and medium-duty passenger vehicles; and (c) greenhouse gas and fuel economy standards for medium- and heavy-duty engines and vehicles. The requirements vary by model year and type of vehicles.

Area Sources

Area sources encompass all other sources too small and numerous to regulate individually, and generally include paints, solvents, asphalt paving, bakeries, gas stations, autobody finishing shops, degreasing supplies, farm equipment, pesticides, small graphic arts shops, and consumer products. The Clean Air Act does not include specific statutory requirements or deadlines that area sources must meet, except as necessary to obtain required emission reductions and demonstrate attainment. EPA establishes most area source controls. However, states have implemented area source controls as part of their ozone attainment plans submitted to EPA.

EPA regulates the volatile organic compound content of paints, stains, and architectural coatings used by area sources. The regulations vary depending on the type of coating and source using the coating.

Nonroad Engines

EPA regulates emissions from nonroad engines such as recreational vehicles, industrial equipment, lawn mowers and garden equipment, off-highway vehicles, construction equipment, farm equipment and marine engines. In Wisconsin, these regulations primarily affect small engine manufacturing plants.

EPA regulations for heavy-duty nonroad diesel engines limit emissions of nitrogen oxides, hydrocarbons, carbon monoxide, and particulate matter, and include significant reductions in the allowable sulfur content for fuel. Requirements and the implementation timeline vary by type of engine and began with model year 2008. These engines include certain engines over 25 horsepower such as those used in forklifts, electric generators, airport baggage transport vehicles, certain farm and construction uses, warehouses, and ice-skating rinks.

EPA regulations phased in emission standards between 2006 and 2018, depending on the type of engine, for the exhaust of: (a) recreational vehicles such as snowmobiles, off-highway motorcycles and all-terrain vehicles; (b) recreational marine diesel engines over 50 horsepower used in recreational boats; (c) marine diesel engines above 800 horsepower and locomotives; (d) small nonroad spark-ignition engines rated below 25 horsepower used in household and commercial applications, such as lawnmowers, garden equipment, utility vehicles, generators, and other types of construction, farm, and industrial equipment; (e) marine sparkignition engines and vessels, including outboard engines, personal watercraft, and inboard engines used in speedboats and recreational watercraft; and (f) large marine diesel engines, such as on oceangoing vessels.

DNR Revenues and Expenditures

DNR is authorized base funding of \$17.0 million with 144.5 positions for air management activities in 2018-19. Approximately half of the staff is located in the Madison central office and the other half is in the DNR regional and subregional offices located throughout the state. Table 1 lists the funding sources and amounts, and positions authorized for DNR air management programs.

Within the Environmental Management Division, the Bureau of Air Management is authorized \$15.0 million with 132.0 permanent positions to conduct monitoring, permitting, planning and compliance activities. During 2018-19, the Bureau is planning for approximately 108.5 full-time equivalent (FTE) positions of staff effort. These positions include central office staff and regional staff in the air management program. The program anticipates holding an equivalent of 6.0 FTE positions vacant during 2018-19, based on available federal and state revenues. In October, 2018, 17.5 positions were vacant.

The Environmental Management Division is authorized 3.0 positions from federally-regulated stationary source fees for divisionwide program management. The Bureau of Law Enforcement is authorized 2.5 positions from air funding sources. The Internal Services Division and External Services Division are authorized 7.0 positions from federal and state air funding sources for legal, administrative services, customer service and licensing, communication and education strategy, and to assist businesses in meeting environmental requirements.

DNR's air management programs are funded from several sources, as shown in Table 2. Revenues for DNR air management programs from all sources were approximately \$12.6 million in 2016-17 and \$16.7 million in 2017-18. Approximately 79% of funding for the program during the two years came from state-assessed stationary source operation permit fees, federal Clean Air Act grants, and the segregated petroleum inspection fund.

Almost 43% of revenues in the two-year period of 2016-17 and 2017-18 came from stationary source operation permit fees paid by federally-regulated and state-regulated sources. Over 52% of air program positions were funded from stationary source fees during the two years, including 75.75 PR positions authorized from

Table 1: 2018-19 DNR Air Management A	Authorized Base Funding and Positions

Source	Fund Source	Amount	Position
Bureau of Air Management Program Revenue (PR) Stationary Source Fees Federally-Regulated Sources Stationary Source Fees State-Regulated Sources New Source Construction Permit Fees Asbestos Abatement Fees Ozone-Depleting Substance Fees Federal Clean Air Grants* Petroleum Inspection Fund Segregated Revenue (SEG) Environmental Management Account (SEG) Subtotal Bureau of Air Management	PR PR PR PR FED SEG SEG	\$5,844,800 1,351,100 2,157,900 560,300 116,400 3,328,300 1,512,600 <u>147,500</u> \$15,018,900	$54.00 \\ 12.00 \\ 19.50 \\ 4.00 \\ 1.50 \\ 34.00 \\ 5.00 \\ 2.00 \\ 132.00$
Environmental Management Division Stationary Source Fees Federally-Regulated Sources	PR	410,400	3.00
Bureau of Law Enforcement Stationary Source Fees Federally-Regulated Sources Federal Clean Air Grants*	PR FED	87,900 137,200	1.00 1.50
External Services and Internal Services Divisions Stationary Source Fees Federally-Regulated Sources Federal Indirect Cost Reimbursement Petroleum Inspection Fund Total DNR Air Management Funding	PR FED SEG	464,300 685,500 <u>170,200</u> \$16,974,400	5.75 0.00 <u>1.25</u> 144.50

* The federal clean air grant amounts primarily include funding received from the U.S. Environmental Protection Agency.

Source	2016-17 Revenue Actual	2016-17 % of Total	2017-18 Revenue Actual	2017-18 % of Total	5 Total 2016-17 and 2017-18	% of Total
Stationary Source Operation Permit Fees						
- Federally-Regulated Sources	\$3,882,600	30.7%	\$6,195,800	37.1%	\$10,078,400	34.4%
 State-Regulated Sources 	1,029,200	8.1	1,493,500	8.9	2,522,700	8.6
Federal Clean Air Act Grants	3,134,700	24.8	4,115,500	24.6	7,250,200	24.7
Petroleum Inspection Fund	1,674,000	13.3	1,657,500	9.9	3,331,500	11.4
Permit Review and Enforcement Fees	1,841,700	14.6	2,128,500	12.7	3,970,200	13.5
Asbestos Abatement Fees	699,700	5.5	834,500	5.0	1,534,200	5.2
Ozone-Depleting Substances Fees	146,900	1.2	150,700	0.9	297,600	1.0
Environmental Management Account	158,600	1.3	143,300	0.9	301,900	1.0
General Purpose Revenue	65,000	0.5	0	0.0	65,000	0.2
Other Program Revenues	1,200	0.0	0	0.0	1,200	0.0
	\$12,633,600	100.0%	\$16,719,300	100.0%	\$29,352,900	100.0%

Table 2: Revenues for DNR's Air Management Programs - 2016-17 and 2017-18

Note: Federal grants and state-assessed fees include actual revenues. Petroleum inspection fund, environmental management account, and general purpose revenues include authorized funding in both years.

stationary source operation permit fees paid by these regulated sources. These fees are discussed in detail in a subsequent section related to operation permits and fees.

EPA provides the state with grants for general program operations associated with implementing Clean Air Act provisions, based on an agreed-upon work plan between EPA and DNR. EPA also provides funds for specific purposes such as to purchase air monitors to determine ambient levels of particulate matter in the air, to study air pollutants deposited in the Great Lakes and to monitor air toxics. DNR is authorized 35.5 permanent federal positions in 2018-19, of which 34.0 are in the Bureau of Air Management and the remaining 1.5 are in Bureau of Law Enforcement.

DNR is authorized 19.5 PR positions funded from air construction permit fees. The fees and activities funded from the fees are discussed in a subsequent section related to construction permits and fees.

DNR has 6.25 segregated (SEG) petroleum inspection fund (PIF) positions for air program activities in 2018-19 (5.0 are in the Bureau of Air Management, and 1.25 are in the Internal Services and External Services Divisions). DNR appropriations from the petroleum inspection fund are used for air management activities related to mobile source pollution control, air emission reduction from fuel storage and distribution systems, pollution prevention, and departmentwide activities related to air management.

In addition, DNR is authorized \$30,000 PIF SEG annually to construct and operate an ozone air quality monitoring station in Sheboygan County that meets certain criteria, as well as a sulfur dioxide monitoring site beginning January 1, 2020. Prior to 2017-18, the air monitoring station in Sheboygan County was funded from general purpose revenue (GPR). The petroleum inspection fund receives revenues from the 2¢ per gallon petroleum inspection fee assessed on petroleumbased fuel products entering the state. The fund is primarily used for the petroleum environmental cleanup fund award (PECFA) program, transportation, and environmental programs. [For more information about the petroleum inspection fund, see the Legislative Fiscal Bureau informational entitled, "Petroleum Environmental paper Cleanup Fund Award (PECFA) Program."]

The DNR Air Management program is authorized 2.0 positions from the segregated

environmental management account of the environmental fund. The positions are responsible for permitting, monitoring, and compliance related to industrial sand mining operations. [See the Legislative Fiscal Bureau informational paper entitled, "Environmental Management Account."]

DNR collects other air pollution fees related to asbestos abatement inspections and the regulation of ozone-depleting refrigerants, and is authorized 5.5 positions from these fees. These fees and activities are discussed in subsequent sections related to those programs.

Air Emissions Reporting

Owners or operators of stationary sources of air emissions are required to provide DNR information related to their annual amount of emissions of various air contaminants. DNR compiles the information and is required to report it to EPA. DNR also uses the data to: (a) develop state implementation plans required by EPA; and (b) assess emission fees to stationary sources under Chapter 285 of the statutes and administrative code.

Owners or operators are required to submit air emissions data to DNR every spring for air emissions of the prior calendar year. DNR administrative rules include requirements for reporting procedures and minimum reportable amounts that vary by type of air contaminant. Table 3 lists the total amount of emissions from Wisconsin stationary sources from 2008 through 2017, as reported annually by federally-regulated and stateregulated facilities to DNR. The total tons of reported emissions declined from 404,285 tons in 2008 to 159,441 tons in 2017.

Air Construction Permits and Fees

The Clean Air Act requires stationary sources that emit air pollution to obtain a construction (new source) permit before beginning construction of the air pollution source. The program is also known as the new source review program. A construction permit allows a company to build, initially operate and test the air pollution source. The permit outlines all of the air pollution

Calendar Year	Sulfur Dioxide	Nitrogen Oxides	Particulate Matter**	Particulate Matter 10**	Volatile Organic Compounds	Carbon Monoxide	Hazardous Air Pollutants	CFCs	TRS	Total
2008	193,423	88,323	23,206	12,953	27,751	44,255	13,774	80	520	404,285
2009	160,510	69,586	21,270	12,001	23,431	38,819	11,996	33	469	338,115
2010	163,366	68,620	22,904	12,589	24,701	42,053	12,566	47	479	347,325
2011	142,930	65,261	21,874	13,058	24,247	42,668	12,859	1	543	323,441
2012	107,498	55,556	20,675	11,702	23,483	42,661	8,051	0	541	270,167
2013	108,986	56,044	19,089	11,288	23,184	42,394	9,947	0	525	271,457
2014	85,255	53,558	21,601	13,270	23,734	41,299	9,270	1	578	248,566
2015	61,683	70,682	17,548	9,646	26,142	49,310	11,229	2	601	246,843
2016	33,714	41,338	15,891	9,013	22,623	32,366	3,357	9	526	158,837
2017	29,995	42,074	17,831	9,658	22,334	34,464	2,527	1	557	159,441

Table 3: Reported Air Emissions from Stationary Sources, 2008 Through 2017 (Tons Per Year)*

*Tonnage figures are based on reported emissions of regulated stationary sources.

**PM includes particles at or below 100 microns in size. PM10 includes particles 10 microns or smaller. EPA and DNR require separate reporting of PM and PM10 and use different methods to calculate emissions of each.

CFCs = Chlorofluorocarbons (CFC-12, HCFC-141B, and HCFC-22)

TRS = Total reduced sulfur, sulfur trioxide and hydrogen sulfide

requirements that apply to a source, including emission limits and operating conditions to ensure that the source is in compliance with federal and state air pollution requirements.

DNR administers construction permit requirements under administrative code chapter NR 406. DNR permit review staff work in each of the five DNR geographic regions. They are assigned to permit sources within specific counties in the regions.

Types of activities that may require a permit include: (a) use of adhesives, paints, inks or other solvents that cause emissions of VOCs and hazardous air pollutants (HAPs); (b) fuel use, excluding electricity that results in emissions of carbon monoxide, sulfur dioxide, NO_x and some HAPs; and (c) grinding, sanding, welding, material handling or other activities that create dust or fumes that emit particulate matter and some HAPs. Types of businesses that may need a permit include: (a) metal parts coating or autobody refinishing; (b) food products and nondurable goods; (c) chemical, rubber and plastic products; (d) paper, printing and publishing; (e) lumber, wood products and wood furniture; (f) primary metals industry; (g) health services; (h) combustion sources; and (i) road paving material production.

All new, modified, reconstructed, relocated, or replaced air pollutant sources are required to obtain a construction permit before beginning construction, unless they are exempt from construction permit requirements under NR 406. The permit expires after 18 months and can have one 18-month extension under certain instances. Administrative rules include exemptions from construction permit requirements for specific types of sources with low emissions that meet specific criteria.

The federal construction permit requirements vary depending on whether the facility is located in a nonattainment area. Facilities in nonattainment areas must meet more stringent standards. In areas that currently meet air quality standards, requirements are designed to prevent industrial growth from causing a significant deterioration of the air quality. Regulated major source facilities are required to install equipment with emission controls being generally used by industry for new construction. Generally, major sources that are required to obtain construction permits in areas meeting the air quality standards are facilities that have the potential to emit over 250 tons per year of any criteria pollutant, or over 100 tons per year in specified source categories.

Under federal and state requirements, certain major sources in attainment areas are required to meet "best available control technology" (BACT) emissions limitations specified in the DNR permit on a case-by-case basis. Certain facilities in nonattainment areas must install equipment with emission controls based on a "lowest achievable emission rate" (LAER) standard. This standard is the most stringent control technology and is determined by: (a) the most stringent emission limitation achieved in practice within an industry; or (b) the most stringent emission limit contained in any state plan. In addition, facilities in nonattainment areas must provide specified offsets to proposed increased emissions. Offsets are emission reductions obtained from other sources of air pollution in the nonattainment area. The Clean Air Act Amendments of 1990 apply these requirements to smaller sources of pollution.

The source is required to have a complete operation permit on file with DNR by the time the construction permit expires in order to continue operating the source. The operation permit program is described in a subsequent section.

DNR issued 103 construction permits in 2016-17 and 81 in 2017-18. DNR issued 4,915 construction permits between 1988 and June 30, 2018. As of July 1, 2018, DNR was processing 58 construction permit applications.

Since July, 2012, Sheboygan County and a

portion of Kenosha County continue to be designated as nonattainment for ozone. Six construction permits (3%) issued statewide in 2016-17 and 2017-18 were issued to facilities located in those two areas.

Revenues and Expenditures

DNR activities related to reviewing and issuing construction permits are funded from program revenue (PR) fees authorized in administrative rule NR 410. The fees for an individual source vary depending on situations such as the type of request, type of pollutant, whether emission testing is required, and whether the applicant requests expedited review.

In 2018-19, DNR is authorized base funding of \$2,157,900 with 19.5 positions to administer the construction permit program. Table 4 shows construction permit fee revenues and expenditures for 2012-13 through 2017-18. In addition to the expenditures shown in the table, DNR transferred \$113,700 from the appropriation account balance to the general fund in 2013-14, \$67,400 in 2014-15, and \$263,678 in 2016-17 as part of the Department's obligations under various biennial budget acts. On July 1, 2018, the account had a cash balance of \$2.2 million.

DNR administrative rules establish construction permit fees for reviewing applications to construct or modify sources of air pollutants. The fees, last revised effective January 1, 2011, cover actions such as review of major or minor source

Table 4: Air Construction Permit Revenueand Expenditures

Year	Revenue	Expenditures
2012-13	\$2,205,800	\$1,507,200
2013-14	1,961,200	2,103,500
2014-15	2,382,000	2,024,900
2015-16	1,849,600	1,713,000
2016-17	1,841,700	1,955,800
2017-18	2,128,500	1,401,600

construction, modifications to sources, expedited review, modeling analysis, revisions to a permit, emissions testing, and determination of exemption from a construction permit or certain permit requirements. Applicants who withdraw or stop work on an application have to pay for review work completed to that point. The average fee was approximately \$17,175 per permit in 2016-17 and \$23,300 in 2017-18. The average fee was higher in 2017-18 because the permits were for more complex facilities with more components than in 2016-17.

Timeline for Permit Issuance

In 2017-18, DNR issued construction permits in an average of 48 days after the receipt of a complete application, excluding two permit applications with special circumstances, each of which had an issuance time of greater than 300 days. It took an average of 201 days from the time of the initial receipt of the application to issuance of the permit. However, the time varies widely, depending on the size and complexity of the source, the applicant's timeline, the quality of the application materials, whether the applicant requests expedited review and whether a public hearing is held regarding the application.

DNR is generally required to process a construction permit within 180 days of receiving a completed application if there is no public hearing, or 240 days if there is a hearing. The time allowed for processing a construction permit for a minor source is typically 120 days after the application is complete if there is no public hearing, or 180 days if there is a hearing.

After DNR receives a construction permit application, the Department has 20 days to provide the applicant with written notice of any additional information required to determine if the proposed construction, reconstruction, replacement or modification will meet state requirements. After the applicant provides the information, DNR has 15 days to notify the applicant whether the

information satisfies the Department's request. The application is considered complete when the applicant satisfies the Department's request. A DNR air management permit reviewer then prepares an analysis of the complete application, evaluates the application to quantify the proposed emissions, identifies applicable emission limitations, analyzes the effect of the project on ambient air quality and prepares a preliminary determination on the approvability of the application. The DNR analysis and preliminary determination must be completed within 90 days after the application is considered complete for major sources, or within 30 days for minor sources.

A public notice and 30-day public comment period follows issuance of the preliminary determination. DNR may hold a public hearing if a hearing is requested within 30 days after DNR gives public notice if requested by a person who may be affected by the issuance of the permit, any affected state or EPA. DNR must hold the public hearing within 60 days after the deadline for requesting a hearing if the Department determines that there is a significant public interest in holding a hearing. DNR must issue or deny the construction permit within 60 days after the close of the comment period or public hearing, whichever is later.

Other Construction Permit Requirements

DNR administrative rules exempt minor sources from the requirement to obtain a construction permit if the emissions from the sources do not present a significant hazard to public health, safety or welfare, or to the environment. The rules require payment of a determination or application fee, and provide: (a) an exemption from construction permit requirements for certain facilities that have actual emissions of pollutants less than certain specified levels (depending on the type of source), and that are not subject to additional control requirements such as federal hazardous air pollutant standards; and (b) an exemption from construction permit requirements for projects not exceeding certain maximum theoretical emissions. Examples of exempt sources are certain grain storage facilities, motor vehicle refinishing shops, graphic arts operations, and painting or coating operations. DNR issued 56 exemptions to minor sources from the requirements to obtain a construction permit in 2016-17, and 53 in 2017-18.

Owners or operators may also apply, with payment of a fee, for an exemption to, or modification of, certain construction permit requirements for activities or operations such as: (a) exemptions for certain equipment used for testing or research; (b) a modification to a stationary source regulated by a plant-wide applicability limitation; and (c) minor modifications at major stationary sources. DNR issued four of these permit exemptions or modifications in 2016-17 and four in 2017-18. Most of these were for exemptions for research and testing equipment.

A person may request a waiver to the requirement to obtain a construction permit before beginning construction, reconstruction, replacement, or modification of a stationary source if the person shows that beginning the activity prior to the issuance of the permit is necessary to avoid undue hardship. Construction permit waivers allow a facility to begin on-site preparation such as site clearing, grading, dredging or landfilling prior to receiving a construction permit when necessary to avoid specified situations of undue hardship. The Department is required to act on the waiver request within 15 days of receipt of the request. A statutory \$300 fee is assessed for the waiver request. In 2016-17, DNR issued nine waivers, and in 2017-18, the Department issued 17.

DNR promulgated administrative rule changes effective December 1, 2015, to streamline the construction permit process for certain sources, and to revise the definition of "commence construction" for minor source construction permits. The rules include: (a) an exclusion for minor sources that allows specified pre-construction activities to proceed before the construction permit is issued; (b) allowance for revocation of certain construction permits at closed facilities without providing written notice and without waiting 21 days; and (c) an exemption for certain restricteduse engines. As of the fall of 2018, DNR was in the process of promulgating rule changes to align the definition of "commence construction" with the federal definition, and planned to then resubmit the rule to EPA to obtain approval of the rules under the SIP process by 2021. DNR recommended that permit applicants not follow the rule until EPA approves the SIP revision.

Air Operation Permits and Fees

The Clean Air Act requires sources that emit above certain thresholds of air pollutants to obtain an operation permit to operate the source after the source is constructed. The federal operation permit program is also known as the Title V permit program, after the section in the Clean Air Act Amendments of 1990 that established the program. Federal requirements include greater oversight and more detailed compliance requirements for sources with these permits.

EPA must administer an operation permit program if the state fails to do so. EPA delegated to Wisconsin the authority to administer the federal operation permit program with interim approval in March, 1995, and full approval effective November 30, 2001. This paper refers to Title V permits and fees as federally-regulated sources.

While federal air permit requirements are generally only applicable to major sources, state law authorizes Wisconsin to also regulate minor stationary sources. DNR also issues non-Title V permits to sources required to obtain a permit under state law, but not federal law. This paper refers to these permits and fees as state-regulated sources.

An operation permit: (a) includes information about which pollutants are being released; (b) outlines all of the air pollution requirements that apply to a source: (c) establishes detailed limits on the emissions of air contaminants; (d) establishes a maximum increase over a baseline of emissions: (e) includes operating conditions to ensure that the source is in compliance with federal and state air pollution requirements; and (f) includes related requirements such as monitoring, record-keeping and reporting. The permit incorporates requirements of the state implementation plans into specific requirements for an individual facility. Before DNR issues a permit to a stationary source, the source must demonstrate that it will meet federal and state standards.

The same sources subject to construction permit requirements are required to file an operation permit application at the same time they file a construction permit application, unless they are exempt from operation permit requirements under administrative rule NR 407.

Federally-Regulated Operation Permits

A federal operation permit (FOP) is required for all facilities defined as major sources, many sources subject to federal air toxics regulation, and many facilities subject to federal new source emission standards. Generally, major sources for operation permits include facilities that have the potential to emit any one of the following: (a) over 100 tons per year of any criteria pollutant or 25 tons per year of VOCs in severe nonattainment areas; (b) 10 tons per year of any federal HAP; or (c) 25 tons per year of all combined federal HAPs. Examples of federally-regulated sources are large factories and power plants.

DNR categorizes some permits as federal operation permits if the source is in the process of applying for a FOP, or is currently operating under a state operation permit or construction permit while it applies for a FOP.

State-Regulated Operation Permits

Certain stationary sources that emit air pollutants are known as state-regulated sources for purposes of operation permit requirements and fees. In general, these sources: (a) voluntarily accept permit limits that reduce emissions enough to be regulated under the state permit program, with federally enforceable conditions, and are known as "synthetic minor" sources; or (b) are required under state, but not federal law, to obtain an air operation permit, and are known as "natural minor" sources. The state regulations for minor sources are less stringent than the requirements for major sources. For example, minor sources are generally not required to install or retrofit equipment to control emissions, as is required of major sources.

State-regulated sources that are synthetic minor (SM) sources are required to have an operation permit, and have the potential to be a major source. They may instead obtain a state operation permit if they meet one of the following criteria:

1. SM80 (Synthetic Minor). These sources may, instead of obtaining a federal operation permit, obtain a state permit that contains conditions that limit potential emissions to less than 100% of the major source thresholds, but allows the emissions to be greater than 80% of the major source threshold. These permits are usually known as a federally enforceable state operating permit (FESOP). Some permits categorized by DNR as FESOP may not meet all the criteria of a SM80, but still include federally enforceable conditions to limit emissions in a similar manner as FESOPs.

2. SM-FESOP. These sources may choose to obtain a FESOP that contains federally enforceable conditions that limit potential emissions to less than 80% of the major source threshold.

3. SM-ROP. These sources may obtain a registration operation permit (ROP), discussed in a subsequent section, that contains federally

enforceable conditions that limit potential emissions to either less than 25%, or less than 50% of the major source threshold.

4. SM-GOP. These sources meet criteria for coverage under a general operation permit (GOP), discussed in a subsequent section, that contains federally enforceable conditions that limit emissions to less than the major source threshold.

5. SM-Other. These sources are issued a permit that does not meet the other SM categories, with conditions specific to the facility, and includes federally enforceable conditions that limit potential emissions to less than 80% of the major source threshold. Alternatively, some of these sources may be operating while DNR is reviewing their application for an operation permit.

Natural minor (NM) sources have potential emissions that are naturally below major source thresholds, and thus, are not considered federallyregulated sources. DNR issues state operation permits to facilities that meet one of the following criteria:

1. NM-SOP. These sources have a state operation permit (SOP) with provisions specific to the facility.

2. NM-ROP. These sources are required to have an operation permit and are covered by a registration operation permit.

3. NM-GOP. These sources are required to have an operation permit and are covered by a general operation permit.

4. NM-Other. These sources may be operating under a different permit provision but will be issued an operation permit under the state-regulated sources program, or may be in the process of applying for an operation permit.

Under the requirements of 2013 Wisconsin Act 20, DNR promulgated administrative rule

changes effective December 1, 2015, that include: (a) elimination of an expiration date for certain state operation permits; (b) allowance for revocation, without providing written notice and without waiting 21 days, for certain operation permits at closed facilities; and (c) removal of outdated tables and requirements, clarifications, and changes to make rules consistent with federal requirements.

Number of Permits Issued

In total, DNR has issued 633 initial federal operation permits (FOP) as of June 30, 2018. An additional seven new or renewal FOP applications were in the public comment phase. DNR issued 866 initial FESOPs as of June 30, 2018. The operation permit is issued for operations at the entire facility and is valid for five years. As of June 30, 2018, DNR issued 1,524 renewals (823 FOPs and 701 FESOPs) out of 2,152 applications received.

In addition to the FOPs and FESOPs, DNR issues state operation permits (SOP) for minor sources not subject to federal permit requirements. Examples of minor sources are some rock crushers, drycleaners and smaller boilers. As of July, 2018, 128 initial SOPs and 52 SOP renewals were issued and no additional applications were in the public notice and comment phase of review.

Timeline for Permit Issuance

After DNR receives an operation permit application, the Department has 20 days to provide the applicant with written notice of any additional information required to determine if the source, upon issuance of the permit, will meet state requirements. After the applicant provides the information, DNR has 15 days to notify the applicant whether the information satisfies the Department's request. After DNR determines the application is complete, a DNR air management permit reviewer prepares an analysis of the complete application, and prepares a preliminary determination on the approvability of the application. (There is no statutory timeline for this review.)

A public notice and 30-day public comment period follows issuance of the preliminary determination. DNR may hold a public hearing if a hearing is requested within 30 days after DNR gives public notice. A request may be made by a person who may be affected by the issuance of the permit, any affected state or EPA. DNR must hold the public hearing within 60 days after the deadline for requesting a hearing if the Department determines that there is a significant public interest in holding a hearing. After the public hearing and comment period, DNR must issue or deny the operation permit, and submit it to EPA for approval if required by the Clean Air Act. If EPA objects to the issuance of the operation permit, DNR must revise the proposed permit as necessary to satisfy the objection.

DNR is required to notify an applicant for an operation permit, before issuing the permit, of any proposed emissions monitoring requirement for the permit. The applicant may choose to demonstrate that the proposed monitoring requirement is unreasonable. If the Secretary of DNR determines that the monitoring requirement is unreasonable, the Department may not impose the monitoring requirement.

General Permits

DNR administrative rules authorize the issuance of general operation permits and general construction permits for similar categories of stationary sources. The rules: (a) include criteria for identifying eligible categories of sources and permit requirements; and (b) may exempt persons who qualify for a general operation permit from a construction permit.

As of June 30, 2018, DNR had issued four general permits to cover almost all nonmetallic mineral processing facilities, printers, asphalt plants, and crushers. A total of 1,245 general permits have been issued to owners or operators of stationary sources.

Within 15 days after DNR receives an application for coverage under a general permit, the Department is required to provide one of the following to the applicant: (a) written notice that the source qualifies for coverage under the general permit; (b) a written description of any information that is missing from the application for the permit; or (c) a written notice that the source does not qualify for the general permit.

Holders of a general permit pay an annual fee of \$400. General permit fees are deposited in the state stationary sources appropriation. A source with a general permit does not pay construction permit fees, but is subject to general construction permit requirements.

Registration Permits

DNR administrative rules authorize issuance of registration operation permits and registration construction permits that authorize construction or operation, or both, of stationary sources with low actual or potential emissions. As of June 30, 2018, DNR had issued 877 registration permits.

An owner or operator may apply for a registration permit if the source has actual emissions of less than 25 tons per year of each criteria pollutant, and slightly different thresholds for certain printing facilities. The registration operation permit allows the owner or operator the flexibility to construct, modify or replace equipment without obtaining a construction permit, as long as the facility continues to comply with all conditions of the registration permit after the change.

Within 15 days after DNR receives an application for coverage under a registration permit, the Department is required to provide one of the following to the applicant: (a) written notice that the source qualifies for coverage under the registration permit; (b) a written description of any information that is missing from the application for the permit; or (c) a written notice that the source does not qualify for the registration permit.

Holders of a registration operation permit pay an annual fee of \$400. Registration permit fees are deposited in the state stationary sources appropriation.

Under the requirements of 2013 Act 20, DNR issued a registration permit, effective February 23, 2016, authorizing the construction or operation, or both, for any stationary source with actual emissions that do not exceed 50% of any applicable major source threshold established under the federal Clean Air Act. The provision is subject to a requirement that DNR may not take action under air pollution requirements that conflicts with the federal Clean Air Act. As of June 30, 2018, DNR issued 69 registration permits under this provision.

Exemptions

Minor sources are exempt from the requirement to obtain an operation permit if the emissions from the sources do not present a significant hazard to public health, safety or welfare or to the environment. Examples of exempt sources are painting or coating operations, graphic arts operations, motor vehicle refinishing shops, certain dry cleaning operations, gasoline dispensing facilities, grain storage facilities, grain processing facilities, and facilities with less than specified maximum theoretical emissions.

Under the requirements of 2013 Act 20, DNR promulgated administrative rules effective December 1, 2015, to exempt natural minor sources from the requirement to obtain a state operation permit. The rules define a natural minor source as: (a) not a major source, which is required to obtain a federal operation permit; (b) not a synthetic minor source, which has federally enforceable permit conditions that limit emissions so the source does not have to obtain a federal operation permit); or (c) not a "part 70" source, which is subject to certain federal permitting requirements. Natural minor sources are exempt from paying the \$400 annual operation permit fee for state-regulated sources. As of June 30, 2018, 20 natural minor sources were exempt from the requirement to obtain a state operation permit under the provision.

Under the requirements of 2013 Act 20, DNR informs state-regulated facilities about the benefits of obtaining a registration operation permit or an exemption from an operation permit. DNR does this through: (a) a webpage that describes the permit options available to facilities; (b) emails to facilities; and (c) presentations to stakeholders.

Revenues and Expenditures

As with the construction permit program, DNR administers the operation permit program with staff located in each of the five DNR regions. They are assigned to work with permit sources within specific counties in the regions.

The Clean Air Act Amendments of 1990 required states to assess fees based on the tonnage of emissions generated by a stationary source that is a federally-regulated facility under the federal operation permit program. The fees may only be used for the implementation of Clean Air Act provisions. States must demonstrate to EPA that the fees collected on emissions are adequate to cover the state's program costs associated with reducing the emissions of facilities being assessed the fees. States may place a cap on the tonnage of emissions that a fee is assessed on. States may adjust the fee rate annually based on the change in the Consumer Price Index.

Wisconsin's air emissions tonnage fee system began with assessment of fees in 1992-93 for calendar year 1992 emissions. The fee structure has been changed in several subsequent biennial budget acts. Additional detail about the fee structures in effect before the 2017-19 biennium can be found in the 2017 Legislative Fiscal Bureau Informational Paper #66 entitled, "Air Management Programs."

As of 2005-06, separate appropriations exist for revenues assessed for operation permits for each of federally-regulated sources and state-regulated sources. The statutes require that the fees deposited in each of the two appropriations be used for the following: (a) the costs of reviewing and acting on applications for operation permits; (b) implementing and enforcing operation permits, except for court costs or other costs associated with an enforcement action; (c) monitoring emissions and ambient air quality; (d) preparing rules and materials to assist persons who are subject to the operation permit program; (e) modeling ambient air quality; (f) preparing and maintaining emission inventories; (g) any other direct and indirect costs of the operation permit program; and (h) costs of any other activities related to stationary sources of air contaminants.

Federally-Regulated Sources. Effective in 2013-14 for calendar year 2013 emissions, through 2018-19, sources that are required to obtain an operation permit under federal law continue to pay an annual air emissions tonnage fee of \$35.71 per ton. In addition, all federally-regulated sources pay an annual base fee, based on the tons of actual billable emissions from the facility in the prior calendar year as follows: (a) \$900 if the source emitted not more than 10 tons of billable emissions in the prior calendar year; (b) \$1,300 if the source emitted more than 10 tons but not more than 25 tons in the prior calendar year; (c) 1,600 if the source emitted more than 25 tons but not more than 50 tons in the prior calendar year; (d) \$2,300 if the source emitted more than 50 tons and not more than 80 tons in the prior calendar year; and (e) \$3,000 if the source emitted more than 80 tons per year in the prior calendar year.

Finally, federally-regulated sources pay an annual flat fee only if they meet applicable

criteria. The flat fees include:

1. Sources pay \$960 if one or more maximum achievable control technology (MACT) standards apply to the source. This refers to technology-based federal standards that apply to major sources of hazardous air pollutants. Emission limits vary based on the toxicity of the pollutant. Examples of sources are chemical manufacturing, industrial and commercial boilers and heaters, and iron and steel foundries.

2. Sources pay \$960 if one or more federal new source performance standards (NSPS) apply to the source. This refers to technology-based federal standards requiring new sources of air pollutants to minimize air emissions. The standards are typically specified for the type and size of equipment rather than the amount of emissions of pollutants. Examples of sources are electric steamgenerating units, incinerators, manufacturing plants, and various printing and coating operations.

3. Sources pay \$1,500 if federal prevention of significant deterioration (PSD) permitting applies to the source. This is the federal pre-construction permitting program for major sources or major modifications at a major source in attainment areas. Examples of sources are electric utilities, paper mills, and foundries.

4. Sources pay \$46,980 if the source is an electric utility with an electric generating unit (EGU), is privately-owned, and is a coal-fired generating unit. This includes some of the largest sources of air pollutants in the state. The fee does not apply to publicly-owned electric generating units.

State-Regulated Sources. State-regulated sources do not pay an annual fee based on the air emissions tons. Rather, a source pays an annual fee of \$4,100 if the operation permit limits the source's potential to emit so that the source is not a major source, and the operation permit includes

federally enforceable conditions that allow the amount of emissions to be at least at least 80% and less than 100% of the amount that results in the source being classified as a major source subject to the federally-regulated sources emissions tonnage fee. All other sources required to have a state operation permit pay an annual fee of \$400. This includes holders of a general or registration operation permits. An owner or operator of a stationary source that is exempt from the requirement to obtain an operation permit does not pay a fee.

Annual Fees Assessed. Table 5 shows the total operation permit fees assessed by year, the emissions fee rate per ton, the number of billable tons of emissions, the fees assessed based on the tonnage rate, and the flat or base fees assessed to federally-regulated or state-regulated sources. In 2017-18, these sources were assessed fees totaling \$6.0 million.

Table 6 lists the operations permit fees assessed on federally-regulated facilities in 2016-17 for calendar year 2016 emissions and in 2017-18 for calendar year 2017 emissions. The table includes three sections. First, it shows the tons assessed the emissions tonnage fee, by type of pollutant. Federally-regulated sources that had billable emissions of at least five tons were billed an emissions fee of \$35.71 per ton of emissions. In 2017-18, a total of 389 facilities with federal operation permits were assessed stationary source fees totaling \$4.8 million in emissions tonnage fees for approximately 89,400 tons of billable pollutants that they emitted. Second, it shows the annual base fee, based on the tons of actual billable emissions. Third, it shows the annual flat fee paid by some federally-regulated sources that meet applicable criteria.

Pollutants assessed the fees include the criteria pollutants (carbon monoxide is exempted), hazardous air pollutants, and most other regulated pollutants under the Clean Air Act, such as ozonedepleting pollutants. A total of 93 different

Year of Emissions	Year of Assessment	Fee Rate Per Ton	Billable Tons	Tonnage Fees (\$ millions)	Flat or Base Fees (\$ millions)	Total Fees Assessed (\$ millions)
1992	1992-93	\$18.00	278,607	\$5.01		\$5.01
1993	1993-94	29.30	279,638	8.19		8.19
1994	1994-95	30.07	279,394	8.40		8.40
1995	1995-96	30.92	285,291	8.82		8.82
1996	1996-97	31.77	273,506	8.69		8.69
1997	1997-98	32.65	291,184	9.51		9.51
1998	1998-99	33.19	280,959	9.33		9.33
1999 (1)	1999-00	33.80	289,154	9.77		9.77
2000 (2)	2000-01	35.71	285,628	10.20		10.20
2001	2001-02	35.71	276,354	9.87		9.87
2002	2002-03	35.71	272,727	9.74		9.74
2003	2003-04	35.71	272,766	9.74		9.74
2004	2004-05	35.71	268,207	9.58		9.58
2005 (3)	2005-06	35.71	265,938	9.49		9.49
2006	2006-07	35.71	254,423	9.13		9.13
2007 2008 2009 (4) 2010 2011	2007-08 2008-09 2009-10 2010-11 2011-12	35.71 35.71 35.71 35.71 35.71	248,869 218,047 188,093 188,467 178,472	9.01 8.49 6.72 6.73 6.37	\$1.34 1.10 1.10	9.01 8.49 8.06 7.83 7.47
2012	2012-13	35.71	155,630	5.56	1.10	6.66
2013 (5)	2013-14	35.71	154,086	5.50	3.08	8.58
2014	2014-15	35.71	145,171	5.18	3.07	8.25
2015	2015-16	35.71	118,348	4.23	3.01	7.24
2016	2016-17	35.71	91,793	3.28	2.89	6.17
2017	2017-18	35.71	89,404	3.19	2.82	6.02

Table 5: Stationary Source Operation Permit Fees - Fee Rate, Emissions, and Fees Assessed

(1) Beginning in 1999, the emission fee cap increased from 4,000 to 5,000 tons per pollutant.

(2) 1999 Wisconsin Act 9 eliminated the annual inflationary adjustment factor after 2000.

(3) For emissions in 2005 through 2008, the tonnage fee was paid for federally-regulated or state-regulated sources.

(4) Beginning with emissions in 2009, state-regulated sources pay a flat fee rather than a tonnage-based fee. Tons are shown for federally-regulated sources.

(5) Beginning with emissions in 2013, federally-regulated sources pay a tonnage fee and a base fee, and certain federallyregulated sources also pay a flat fee. The column for flat or base fees includes federally-regulated and state-regulated sources.

pollutants can be billed. Of the 93 pollutants, Wisconsin facilities emitted and were assessed on 19 different pollutants in 2017-18. In Wisconsin, the largest volume of emissions is generated by larger utilities, paper-related industries, and large chemical plants.

Table 6 includes all of the tons of emissions reported by federally-regulated and state-regulated sources, as also shown in Table 3, including 158,837 tons in 2016 and 159,442 tons in 2017. DNR reports that approximately 85.7% of reported tons were from federally-regulated sources, and 14.3% were from state-regulated sources. Of the reported emissions, in 2017 (2017-18 assessments), 89,404 tons were subject to the emissions tonnage fee paid by federally-regulated sources (56% of all tons reported by federally-regulated and state-regulated sources). The main reasons for the difference between

Table 6: Emissions Assessments for Stationary Sources with Federal Operation Permits, 2016-17 and 2017-18

Pollutant	Actual Tonnage (2016 Tons of Emissions)	Assessed Tonnage (2016 Billable Tons of Emissions)	Fiscal Year 2016-17 Assessed Revenues \$35.71/ton	Actual Tonnage (2017 Tons of Emissions)	Assessed Tonnage (2017 Billable Ton of Emissions)	Fiscal Year 2017-18 Assessed Revenues \$35.71/ton
A. Tonnage Fee by Pollutant Type Sulfur Dioxide Nitrogen Oxides Particulate Matter Particulate Matter 10 Volatile Organic Compounds (VOC) Other Pollutants (HAP, CFC, and TRS) * Carbon Monoxide Subtotal Tonnage Fee	33,714 41,338 15,891 9,013 22,623 3,892 <u>32,366</u> 158,837**	30,63435,6777,897014,2963,289091,793	\$1,093,935 1,274,018 282,007 0 510,516 117,461 0 \$3,277,937	$\begin{array}{c} 29,995\\ 42,074\\ 17,831\\ 9,658\\ 22,334\\ 3,086\\ \underline{34,464}\\ 159,442**\end{array}$	27,051 36,548 8,606 0 14,405 2,794 0 89,404	\$965,983 1,305,126 307,332 0 514,412 99,787 <u>0</u> \$3,192,640
B. Base Fee < or = 10 tons of billable emissions > 10 tons and < or = 25 tons > 25 tons and < or = 50 tons > 50 tons and < or = 80 tons > 80 tons Subtotal Base Fee	Fee Amount \$900 1,300 1,600 2,300 3,000	2016-17 Number of Sources 65 66 64 51 <u>141</u> 387	2016-17 Total Amount Assessed \$58,500 85,800 102,400 117,300 <u>423,000</u> \$787,000	Fee Amount \$900 1,300 1,600 2,300 3,000	2017-18 Number of Sources 66 65 65 55 <u>138</u> 389	2017-18 Total Amount Assessed \$59,400 84,500 104,000 126,500 <u>414,000</u> \$788,400
C. Flat Fee MACT = Maximum Achievable Control Technology NSPS = New Source Performance Standards PSD = Prevention of Significant Deterioration EGU = Electric Generating Unit Subtotal Flat Fee Total Assessments	\$960 960 1,500 46,980	$ \begin{array}{r} 142 \\ 149 \\ 83 \\ \underline{10} \\ 384 \end{array} $	\$136,320 143,040 124,500 <u>469,800</u> \$873,660 \$4,938,597***	\$960 960 1,500 46,980	$ \begin{array}{r} 141 \\ 155 \\ 83 \\ \underline{9} \\ 388 \end{array} $	\$135,360 148,800 124,500 <u>422,820</u> \$831,480 \$4,812,520***

*HAP = Hazardous Air Pollutants; CFCs = Chlorofluorocarbons; TRS = Total reduced sulfur, sulfur trioxide and hydrogen sulfide.

**Actual tonnage includes tons reported by federally- and state-regulated sources. Approximately 85% of tons are from federally-regulated sources and approximately 15% are from state-regulated sources. State-regulated sources are not subject to the tonnage-based fee.

***Table 6 and Table 7 data for federally-regulated sources differs slightly, primarily because DNR established emissions, base, and flat fees in January (Table 6), and compiled permit type in August of the same year (Table 7).

reported and billed emissions were that several electric utilities and paper mills had emissions of sulfur dioxide and nitrogen oxides that exceeded the 5,000-ton cap per pollutant, and carbon monoxide is not subject to the fee. Emissions such as carbon dioxide and other greenhouse gases are currently reported but are not billed.

Table 7 shows the stationary source operation permit fees assessed by permit type. In 2016-17, 2,306 sources with operation permits were assessed \$6.2 million in operation permit fees, including: (a) 387 sources with federal operation permits were assessed over \$4.9 million; and (b) 1,919 state-regulated sources were assessed over \$1.2 million. In 2017-18, 2,281 sources were assessed \$6.0 million in operation permit fees, including: (a) 389 sources with federal operation permits were assessed \$4.8 million; and (b) 1,892 state-regulated sources were assessed \$1.2 million.

Expenditures. In 2018-19, DNR is authorized funding of \$6,807,400 with 63.75 positions to administer the federally-regulated operation permit program. Of the positions, 54.0 are located in the Bureau of Air Management, and the remaining 9.75 work in the Environmental Management divisionwide administration, Bureau of Law Enforcement, and Internal and External Services Divisions. In 2018-19, DNR is authorized funding of \$1,351,100 with 12.0 positions to administer the state-regulated operation permit program. Table 8 shows operation permit fee revenue collections and expenditures for 2012-13 through 2017-18, with separate columns for federally-regulated and state-regulated fees and expenditures. Actual revenue collections differ from the assessed amounts shown in Tables 5, 6, and 7 because some fees were received in the fiscal year following the year assessed. Table 1 shows base funding amounts and authorized levels for the program revenue appropriations.

In 2018-19, the Bureau of Air Management is planning for work with 35.75 FTE, or 66%, of the

54.0 staff authorized under the federally-regulated operation permit appropriation. The number of positions planned for work will increase as any of the positions not planned for work in the fall of 2018 are filled during 2018-19. DNR is allocating 12.55 FTE of the 54.0 authorized staff related to federally-required operation permits to activities related to permit review and approval of Title V sources. Another 23.20 staff perform federal Title V program implementation activities such as: (a) ambient air modeling quality assurance when specified in an operation permit; (b) supervision; (c) administrative processing of permits; (d) compliance and enforcement; (e) emissions inventory; (f) development of multi-pollutant control strategies, best available retrofit technology, reasonably available control technology, and best available control technology for federally-regulated sources to meet Clean Air Act requirements; and (g) administrative support. The remaining 18.25 positions are not planned for work effort as of the fall of 2018 due to: (a) 3.0 positions held vacant to cover required 3% vacancy turnover reductions; (b) 1.5 positions related to staff who would be hired in the second half of the year; (c) 3.0 permitting and compliance positions to be filled in the fall of 2018; and (d) 10.75 positions being held vacant until the Department determines whether there will be sufficient revenue to fill the positions.

During 2018-19, DNR is planning for work in the Bureau of Air Management from 10.85 FTE of the 12.0 positions authorized from state-regulated operation permit fees. DNR is allocating the positions to perform the following functions for non-Title V sources: (a) 3.8 of the 10.85 positions for permit review and approval; (b) implementation and enforcement of permits, including efforts related to sand mines; (c) administrative rule development; (d) preparation of materials for persons and sources subject to state-regulated permits; (e) ambient air quality modeling for permitted sources; (f) emissions inventory; and (g) ambient air monitoring at industrial sand mining and processing plants, in addition to the two

Table 7:	Stationary	Source (Operation	Permit Fees	Assessed by	Permit Type	, 2016-17 and 2017-18

Permit Type Assessed	2016-17 Number of Permit Type	2016-17 Assessed Revenues	2017-18 Number of Permit Type	2017-18 Assessed Revenues
Federally-Regulated Sources Permits				
Federal Operation Permit	369	\$4,892,987	376	\$4,777,341
Other FOP Requirements *	18	44,520	13	34,060
Subtotal Federally-Regulated Sources	387	\$4,937,507	389	\$4,811,401
State-Regulated Sources Permits				
Synthetic Minor (SM80)				
Federally Enforceable State Operating Permit				
(FESOP)	125	\$512,500	121	\$496,100
SM80 Other than FESOP *	12	4,800	8	3,200
Subtotal Synthetic Minor (SM80)	137	\$517,300	129	\$499,300
Synthetic Minor				
Federally Enforceable State Operating Permit	304	\$121,600	304	\$121,600
Registration Operation Permit (ROP)	276	110,400	279	111,600
General Operation Permit (GOP)	407	162,800	421	168,400
State Operation Permit (SOP)	39	15,600	31	12,400
Subtotal Synthetic Minor	1,026	\$410,400	1,035	\$414,000
Natural Minor				
Registration Operation Permit	375	\$150,000	399	\$159,600
General Operation Permit	4	1,600	1	\$139,000 400
State Operation Permit and Other	4	1,000	1	400
SOP Requirements *	377	150,800	328	131,200
Subtotal Natural Minor	756	\$302,400	728	\$291,200
Subtotal Matural Millor	750	\$502,400	720	φ271,200
Total State-Regulated Sources	1,919	\$1,230,100	1,892	\$1,204,500
Total All Operation Permit Fees	2,306	\$6,167,607	2,281	\$6,015,901
Number Exempt from Permit and Fees	1,356		1,417	

*"Other" can include sources operating under a permit for which they have applied prior to DNR action on the permit application, or operating under some other type of permit provision but included by DNR in the listed category.

Table 8: Air Operation Permit Revenue Collections and Expenditures
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	Feder Regulated	•		ate- d Permits	Total Operation Permits		
Year	Revenue	Expenditures	Revenue	Expenditures	Revenue	Expenditures	
2012-13	\$5,890,300	\$5,951,300	\$1,092,100	\$876,600	\$6,982,400	\$6,827,900	
2013-14	7,281,900	5,765,200	1,222,200	865,600	8,504,100	6,630,800	
2014-15	7,265,900	6,127,900	1,227,000	418,400	8,492,900	6,546,300	
2015-16	5,121,300	5,852,200	1,433,500	872,200	6,554,800	6,724,400	
2016-17	3,882,600	5,235,400	1,029,200	904,700	4,911,800	6,140,100	
2017-18	6,195,800	5,271,700	1,493,500	839,900	7,689,300	6,111,600	

positions funded from the segregated environmental management account.

Demonstration of Program Sufficiency

States are required to regularly demonstrate to EPA that the operation permit program meets federal requirements. In 2004, EPA published a Notice of Deficiency (NOD) for the Wisconsin federal Title V air operation permit program, in which EPA determined that the state's program did not comply with the Clean Air Act. EPA identified several deficiencies in the operation of the program. Wisconsin took several actions to eliminate the backlog of operation permit applications, separate the air operation permit fee appropriation into separate federally-regulated and state-regulated sources fees, demonstrate adequate staffing and funding levels, and make information technology improvements. In February, 2006, EPA formally determined that Wisconsin had resolved each of the deficiencies.

States are required to demonstrate to EPA that the emissions fees assessed by the state for federally-regulated sources will be sufficient to support the Title V program for at least four years. DNR last provided a fee adequacy report to EPA in February, 2017, along with other updates to information about how the Title V air permit program meets federal requirements and collects adequate fees. As of December, 2018, EPA has not taken action on the DNR submittal.

Other Air Permits and Fees Administered by DNR

Asbestos Abatement Fees

DNR is responsible for administering asbestos abatement regulations in conformance with EPA requirements. Persons who remove asbestoscontaining material as part of nonresidential demolition or certain renovation activities must follow asbestos abatement regulations to minimize the release of asbestos fibers into the air. Renovations are subject to DNR asbestos regulations if the amount of asbestos-containing materials exceeds minimum thresholds specified in administrative code.

Persons must notify DNR at least 10 days before they perform asbestos abatement. Persons who are required to submit notification of asbestos abatement and demolition activity can either submit the information through the Internet-based system or submit a paper notification form. DNR reviews the notices for compliance with EPA requirements.

DNR collects asbestos inspection and construction permit exemption review fees from these persons. The actual fee amounts are established in administrative rule NR 410, and cannot exceed statutory maximums. The statutory maximum fees include: (a) \$700 for a combined asbestos inspection fee and construction permit exemption review fee if the combined square and linear footage of friable (readily crumbled or brittle) asbestos-containing material involved in the project is less than 5,000; or (b) \$1,325 if the combined square and linear footage is equal to or greater than 5,000.

Table 9 shows that the fees set in administrative rule are less than the \$700 maximum for small- (\$135) or medium-sized (\$400) projects. Three statutory fees include: (a) \$100 for DNR review of a revised notice of an asbestos renovation or demolition activity; (b) \$100 for DNR inspection of a property proposed to be used for a community fire safety training project for which the Department requires inspection; and (c) a requirement for payment of the required fee after the asbestos renovation or demolition if advance notice and advance payment of the fee was not made as required. DNR administrative rules also authorize the Department to charge for the costs it incurs for laboratory testing for a nonresidential asbestos demolition and renovation project.

Statutory Maximum	Combined Fee Set
Fee	in Rule
\$700	\$135
700	400
700	700
1,325	1,325
100	100
100	100
	Maximum Fee \$700 700 700 1,325 100

Table 9: Asbestos Combined Inspection and Construction PermitExemption Fees

DNR is authorized to initiate enforcement action against persons who do not comply with asbestos abatement regulations. The Department may also issue citations for violations of a small number of asbestos abatement laws.

DNR received 4,437 notifications for asbestos abatement and demolition projects in 2016-17 (including 2,900 original, 1,424 revisions of notifications, and 113 after-the-fact or on hold) and 4,874 in 2017-18 (including 3,156 original, 1,575 revisions, 119 after-the-fact or on hold, and 24 cancelled notifications). The number of notifications included 147 for community fire safety training project burns in 2016-17 and 134 in 2017-18, for which a \$100 fee is charged. DNR staff, and counties and municipalities under contract with DNR, reported to EPA that they inspected 535 asbestos abatement projects in federal fiscal year 2016 and 685 projects in federal fiscal year 2017 before and after abatement activities.

The various asbestos abatement fees are deposited in a DNR program revenue appropriation. The Department uses the asbestos abatement revenues to administer asbestos abatement regulations in conformance with EPA requirements, to hire contractors to conduct inspections of asbestos abatement activities and to provide training.

DNR collected asbestos abatement fees totaling \$699,700 in 2016-17 and \$834,500 in 2017-18. DNR program expenditures were

\$534,000 in 2016-17 and \$435,900 in 2017-18. In 2018-19, DNR is authorized base funding of \$551,300 with 4.0 PR positions for asbestos abatement activities. DNR transferred asbestos abatement fees from the appropriation balance to the general fund totaling \$258,100 in 2016-17 as part of the Department's obligations under the 2015-17 biennial budget act.

Ozone-Depleting Substances Fees

While Clean Air Act regulations work to reduce harmful levels of ground-level ozone, the regulations also work to slow depletion of ozone in the stratosphere approximately six to 30 miles above the earth. Stratospheric ozone filters the sun's harmful ultraviolet radiation. Depletion of stratospheric ozone increases ultraviolet radiation, and has been associated with harmful health effects.

The federal Clean Air Act Amendments of 1990 required the phase-out of production and sale of chemicals that deplete stratospheric ozone between 2001 and 2030. Persons are required to recapture and recycle certain ozone-depleting chemical substances, and may not knowingly vent refrigerants from household appliances, commercial refrigerators and air conditioners. Certain ozonedepleting substances must be removed from products prior to disposal of the products. Federal rules finalized in November, 2016, require compliance with requirements for refrigerant evacuation, appliance maintenance and leak repair. DNR administers rules related to the disposal of any equipment containing ozone-depleting refrigerants, also known as chlorofluorocarbons or CFCs. The DNR program prohibits knowing or negligent releases of ozone-depleting refrigerants. The federal Clean Air Act provisions on stratospheric ozone are somewhat more comprehensive than Wisconsin law, but the two laws are generally consistent.

DNR collects annual registration fees from persons who remove ozone-depleting refrigerants from motor vehicles and appliances such as refrigerators and air conditioners during salvage operations. Annual fees are also collected from persons who transport appliances for salvage. These revenues are deposited in a program revenue appropriation and are used to administer regulations to ensure that CFC removal activities do not release CFCs into the air.

DNR collected ozone-depleting refrigerants fees totaling \$146,900 in 2016-17 and \$150,700 in 2017-18. DNR program expenditures were \$60,600 in 2016-17 and \$74,200 in 2017-18. In 2018-19, DNR is authorized base funding of \$113,200 with 1.5 PR positions for ozone-depleting refrigerant activities. DNR transferred ozonedepleting fees from the appropriation balance to the general fund totaling \$47,700 in 2016-17 as part of the Department's obligations under the 2015-17 biennial budget act.

Air Monitoring Activities

DNR operates a statewide air monitoring program to: (a) determine the ambient air quality levels statewide; (b) identify areas where air quality standards are not being achieved; (c) measure the environmental impact of air pollutants; and (d) evaluate the effectiveness of efforts and control strategies to improve air quality. Data from the monitoring networks is collected and analyzed to ensure quality and used for air quality reporting and planning purposes.

DNR operates several networks of air quality monitors at numerous permanent sampling sites throughout the state. During 2018, DNR operated 40 monitoring sites throughout the state. DNR collected data on several different pollutants at most of the sites as shown in Table 10. In addition, DNR processed data collected by others at 19 other sites, including 17 industrial (15 of which are industrial sand operations) and two tribal sites.

Table 10: DNR Number of Air MonitoringSites, by Type of Pollutant Monitored

Pollutant	Number of Monitoring Sites
Ozone	30
PM2.5	19 (18 of them collected
PM10	continuous hourly data) 7 (3 of them collected continuous data, 5 col- lected filter-based.
	1 of 7 collected both.)
Sulfur dioxide	6 (plus 1 tribal site and 1 source-operated site)
PM2.5 (chemical makeup	
of particles)	4
Nitrogen oxides	3
Continuous gaseous mercury	3 (plus 1 tribal site)
PMcrs (measures a different type	
of coarse particulates between	
2.5 and 10 micrometers)	3
Reactive oxides of nitrogen	3
Carbon monoxide	2
Toxic air pollutants	2
Metals	2
Lead	1

Monitors at 18 of the 19 PM2.5 monitoring stations collect continuous samples on an hourly basis 24 hours a day. Measurements from the continuous PM2.5 monitors are updated and reported hourly on the DNR Air Management program web site. The other PM2.5 monitor collects discrete filter-based data.

DNR air monitoring efforts in 2018 included: (a) performing continuous PM2.5 monitoring at

18 of 19 sites; (b) streamlining the monitoring efforts to create operational efficiencies; (c) performing continuous monitoring of fine particulates and other pollutants to aid in calculating the air quality index DNR uses to inform the public about ambient air quality on a daily basis; (d) maintaining the posting of monitoring data on the DNR web site on an hourly basis, so those most likely to be affected by air pollution, such as families with asthmatic children, could take actions to minimize the impacts of air pollution on their health; (e) implementing federal ozone, sulfur dioxide and nitrogen oxides monitoring requirements; (f) supporting tribal entities and private stakeholders with air monitoring needs; and (g) operating atmospheric deposition monitors.

Ozone monitoring provides the data used to determine attainment status for the ozone standards and provides specialized information on days where ozone levels exceed standards. As required by federal rule, DNR performs an annual review of and solicits public comment on a monitoring network plan which is submitted to EPA by July 1.

Beginning in 2013-14, funding was appropriated to DNR for the construction, operation, and maintenance of an air quality monitoring station in a county identified in its entirety as a nonattainment area for the 2008 eight-hour national ambient air quality standard for the purpose of assessing ozone concentrations under federal regulations. Sheboygan County is the only county that met the statutory definition. An ozone air quality monitoring station known as the Sheboygan-Haven monitor was installed, and operation began in April, 2014. It has been seasonally operated since then. An ozone air quality monitoring station known as the Kohler-Andrae monitor is also located in Sheboygan County.

Under 2017 Wisconsin Act 59, funding for this air monitor was converted from GPR to petroleum

inspection fund SEG, and was continued at \$30,000 annually. In addition, the purposes of the appropriation were expanded to fund the operation and maintenance of an air quality monitoring station in a county where a sulfur dioxide monitor has been in place for three years as a result of certain federal sulfur dioxide monitoring requirements. An air monitoring station operated by the Expera-Kaukauna Thilmany Paper Mill as of January 1, 2017, would meet the requirements under the Act beginning on January 1, 2020. Under Act 59, DNR could begin expending money from the air monitoring station appropriation for this air monitor as of January 1, 2020 (in 2019-20).

Under 2017 Wisconsin Act 159, DNR was prohibited from including an air monitoring site located in Kohler-Andrae State Park in Sheboygan County in the state's initial monitoring network plan submitted to EPA. On June 21, 2018, EPA informed DNR that the plan was not approvable due to the omission of the Sheboygan Kohler-Andrae monitoring site. On July 27, 2018, under the provisions of 2017 Act 159, DNR submitted a revised plan to EPA that included the site. On September 20, 2018, EPA approved the revised DNR monitoring network plan.

In addition to the air quality monitors, DNR's other monitoring activities during 2018 included: (a) collecting data from 19 meteorological stations, two of which are operated by tribal partners, which are used to evaluate the impact of weather on the ambient concentrations of pollutants being monitored; and (b) performing atmospheric deposition monitoring at four sites as part of the Department's participation in the National Atmospheric Deposition Program, a collaborative research effort of several states, federal agencies, and nongovernmental research organizations. DNR also collects air quality samples for the U.S. Department of Homeland Security biowatch program. The details of that activity are for official use only.

Compliance and Enforcement

EPA has delegated compliance and enforcement responsibilities related to Clean Air Act provisions in Wisconsin to DNR. DNR performs activities such as: (a) inspecting stationary sources to ensure compliance with emission limits, permit restrictions and operating requirements; (b) reviewing stack emissions test results or witnessing stack tests to determine whether a source is in compliance; (c) investigating complaints received from citizens; and (d) taking enforcement action when necessary to obtain compliance. The Department also submits a variety of compliance data to EPA to assist in maintaining a national database of air program compliance and enforcement information.

Table 11 shows the number of inspections made by DNR's Air Management program at Wisconsin facilities for the past 10 years. The enforcement process includes issuance of a letter of noncompliance or a notice of violation for more serious violations. While DNR does not track the number of various types of violations, examples of violations are failure to submit a report, failure to construct or operate according to the permit, failure to obtain a permit before construction or operation, failure to monitor, or failure to submit compliance certification information, failure to notify DNR before removing asbestos, violations of emissions requirements, refrigerant recovery violations, and open burning.

Other Regulated Pollutants

Air Toxics

The Clean Air Act requires EPA to regulate emissions of toxic substances known as hazardous air pollutants (HAPs) not covered by national ambient air quality standards. Toxic substances can potentially cause serious human health problems, or can cause adverse environmental and ecological effects. Air toxics include certain heavy metals, chemicals and pesticides.

EPA requires industries to install maximum achievable control technology (MACT). EPA identified categories of sources that emit HAPs. A major source is a facility that may emit 10 tons per year of any single HAP, or 25 tons per year of any combination of HAPs. MACT standards require the maximum achievable degree of emissions reduction, and also consider the technological feasibility and cost. Stricter controls are required for new facilities than for existing facilities. The controls may involve: (a) changes in equipment,

Number of	Noncompliance	Letters of	Notices of
Inspections	Rate	Noncompliance	Violation
431	23	102	115
357	12	55	82
275	13	37	60
257	13	39	35
250	14	29	22
263	17	33	23
303	19	58	19
283	11	34	13
212	12	52	12
242	23	80	41
	Inspections 431 357 275 257 250 263 303 283 212	Inspections Rate 431 23 357 12 275 13 257 13 250 14 263 17 303 19 283 11 212 12	Inspections Rate Noncompliance 431 23 102 357 12 55 275 13 37 257 13 39 250 14 29 263 17 33 303 19 58 283 11 34 212 12 52

Table 11: Inspection and Compliance, 2008-09 to 2017-18

design or operational methods; (b) process changes; (c) the substitution, reuse or recycling of materials; (d) work practice changes; (e) collection, capture, or treatment of pollutants released from a process, stack or other points; or (f) operator training and certification.

EPA promulgated a boiler MACT rule with standards for certain industrial and institutional boilers that burn fuel to produce steam that provides electricity or heat. The requirements are intended to reduce emissions of several types of hazardous air pollutants. As of July, 2018, 134 Wisconsin facilities are subject to the federal boiler MACT rules. Applicable federal regulations are made a part of a facility's federal operation permit.

DNR regulates hazardous air pollutants emitted by facilities through administrative rule NR 445. The rule regulates emissions of 535 substances above a certain threshold. The state rule focuses on the substance emitted rather than the source of the emissions. The rule specifies that if a federal hazardous air pollutant emission standard is promulgated for specific sources under the Clean Air Act, the federal standard applies rather than the state standard. The state enforces the federal standard for 27 toxics on the federal list but not on the state list.

Under NR 445, facilities must identify air toxics emitted by the facility, quantify emissions, and reduce or control emissions under specified conditions. DNR places air toxics operational restrictions and compliance requirements into facility permits during normal revision or renewal of permits (typically every five years). DNR determines whether federal or state NR 445 standards apply for an individual facility as part of review of facility permits. DNR evaluates compliance with NR 445 requirements during normal inspections of facilities.

A facility is subject to fewer requirements under NR 445 if it is an incidental emitter of less than five tons per year of particulate matter and less than three tons per year of volatile organic compounds. These facilities are required to report emissions, obtain necessary permits, and comply with emissions standards.

Mercury Emissions

Mercury is a toxic, persistent pollutant that accumulates in the food chain. Mercury emissions in the air fall onto the earth's surface through rain and snow and enter lakes, streams and other water bodies. Once it reaches the water, mercury turns into a toxic form that concentrates in fish and animal tissues. People are exposed to mercury primarily by eating fish. EPA has acted to cut emissions of mercury from large industrial sources.

EPA administers mercury and air toxics standards for existing and newly-constructed coal- and oil-fired electric utilities. EPA also administers a mercury emissions rule for industrial, commercial, and institutional boilers and process heaters.

DNR mercury emission rules in NR 446, effective in 2008, apply to air contaminant sources that emit mercury. The seven utilities with coalfired power plants regulated under the rule are Dairyland Power Cooperative, Madison Gas and Electric Company, Manitowoc Public Utilities, Northern States Power of Wisconsin, We Energies, Wisconsin Power and Light Company, and Wisconsin Public Service Corporation. Power plants are currently generally required to comply with the federal mercury rule instead of the NR 446 requirements.

Greenhouse Gas Emissions

Carbon dioxide and other greenhouse gases are widely thought to trap heat in the atmosphere, with environmental and human health consequences. Major human-related sources of carbon dioxide emissions are the burning of coal, oil, and gas. These sources include power plants, motor vehicles, and other industrial combustion sources. According to EPA, in 2016 electricity generation and the transportation sector each contributed 28% of all greenhouse gas emissions in the United States.

EPA administers rules that define when federal operation permits are required for new and existing industrial sources that emit greenhouse gases, as part of operation permits for emissions of other regulated pollutants.

Under 2011 Wisconsin Act 171, DNR may only consider carbon dioxide emissions from the burning or decomposition of organic material, other than fossil fuels, in determining whether a construction permit or operation permit is required, or whether best available control technology is required, for greenhouse gas emissions if the carbon dioxide emissions are considered in a manner consistent with federal regulations.

DNR rules for construction and operation permits incorporate EPA's emission standards for greenhouse gas emissions, and the emission thresholds for determining whether facilities are major or minor sources. DNR estimates the amount of greenhouse gas emissions in all permit reviews, and regulates significant sources of emissions as part of federal and state construction and operation permit regulations.

EPA administers a greenhouse gas reporting rule that requires large sources to annually report their greenhouse gas emissions to EPA. Suppliers of fossil fuels or industrial greenhouse gases, manufacturers of vehicles and engines, and facilities with 25,000 metric tons or more per year of greenhouse gas emissions are subject to the reporting requirements. Information is available for sources required to report greenhouse gas emissions for 2010 through 2017. In September, 2017 (the most recent reporting year available), 153 Wisconsin facilities reported greenhouse gas emissions to EPA for 2016-17, totaling approximately 44.8 million metric tons on a carbon-dioxide-equivalent basis. (Carbon dioxide equivalent is an EPA-specified method of measuring various greenhouse gas

emissions in terms of the amount of carbon dioxide that would create the same amount of emissions.)

In October, 2015, EPA issued a final rule known as the "Clean Power Plan" to reduce carbon dioxide emissions by U.S. fossil fuel-powered electric generating units (power plants) by approximately 30% nationwide by 2030. In October, 2017, EPA proposed to repeal the rule. On August 31, 2018, EPA proposed a rule known as the "Affordable Clean Energy Rule" as a replacement for the Clean Power Plan. EPA accepted comments on the rule until October 31, 2018, and planned to finalize the rule in early 2019.

Other DNR Activities

Air Quality-Related Voluntary Initiatives

DNR air program staff work with other organizations in developing several voluntary initiatives intended to improve air quality. During the 2017-19 biennium, DNR worked on the Green Tier program to encourage regulated facilities to achieve superior environmental performance by offering regulatory flexibility through negotiated agreements. DNR also worked with several industries to improve environmental performance, reduce air emissions, and simplify the reporting of emissions. Examples of industries are agribusiness, food processing, brewing, military, energy, wood products, paper, printing, transportation, small business, and other manufacturing types.

Small Business Environmental Assistance Program

The federal Clean Air Act Amendments of 1990 require states to operate a small business assistance program that includes technical assistance for businesses, a compliance advisory panel and a small business ombudsman. To comply, DNR administers the Small Business Environmental Assistance program. The program also provides assistance in other environmental regulations, especially waste and water.

DNR primarily allocates one position in the Bureau of Air Management for air regulations, and two other departmental staff to other environmental regulations. The Department funds the air management position with stationary source fees received from federally-regulated sources under the Title V operation permit program.

The program provides technical assistance to small businesses on state and federal regulations. To do so, DNR staff develop informational publications, answer compliance questions, respond to regulatory inquiries, coordinate environmental compliance workshops, and direct businesses to other technical assistance providers. DNR maintains a web page and designates a staff person to work as a small business ombudsman to connect small businesses with DNR staff and information they need, make recommendations about DNR regulations that may affect small businesses, and facilitate resolution of disputes involving small businesses. In the 2017-19 biennium, DNR program staff made contacts with 104,400 small businesses, made presentations at conferences, and created web pages to provide environmental permitting information.

The Small Business Environmental Council consists of eight members appointed by the Governor, legislative leadership, and DNR. The Council is required to advise DNR concerning the Small Business Environmental Assistance program. During the 2017-19 biennium, the Council met quarterly to discuss air, waste, and water issues of concern to small businesses. The Council monitored legislation intended to better align DNR's compliance audits with federal EPA policies, reviewed how DNR provides information to small businesses, and reviewed how proposed administrative rules may impact small businesses.

Federal Clean Diesel Emission Reduction Grant Program

In 2008 through 2018, DNR received funds under the federal Congestion Mitigation and Air Quality (CMAQ) program and the federal American Recovery and Reinvestment Act of 2009 for diesel emission reduction activities in vehicles and equipment such as trucks, school buses, refrigeration trailers, and construction or agricultural equipment. The program funds truck idlingreduction units that provide heat, air conditioning, or electricity to the cab while the vehicle is stationary, in order to reduce idling of the engine when the vehicle is parked. The program has also funded exhaust retrofits, engine repowers, and school bus replacements.

Between 2008 and September 30, 2018, DNR used the funds for 162 grant awards totaling \$5,577,700 to fund 848 diesel idling-reduction devices or retrofits. Of the 848 units funded, the majority were 321 truck idle-reduction units, and 266 were school bus idle-reduction units, exhaust retrofits, or replacements. In June, 2018, DNR submitted an application to EPA for \$245,000 in federal diesel emission reduction funding for October 1, 2018, through September 30, 2019, for school bus replacements.

Department of Transportation Activities

Wisconsin's motor vehicle inspection and maintenance program, in operation since 1984, requires that most vehicles in southeastern Wisconsin be inspected to ensure that they comply with emission standards and that pollution control equipment is operational. The state Department of Transportation (DOT) administers the program through a contract with a private firm, while DNR sets the emission standards. The program operates in seven previously designated moderate nonattainment counties under the 1997 eight-hour ozone standard (Kenosha, Milwaukee, Ozaukee, Racine, Sheboygan, Washington and Waukesha). All counties but Sheboygan have been redesignated as attainment. Sheboygan is in nonattainment of the 2012 eight-hour ozone standard, and so is a portion of Kenosha County.

The seven counties continue to be subject to the inspection maintenance program as part of Wisconsin's state implementation plan. Before the state could end the vehicle inspection and maintenance program, it would have to submit a SIP revision to EPA demonstrating how the counties would maintain their attainment status without the inspection maintenance program, and how emissions reductions would be obtained from other sources than vehicles.

Vehicles are required to be tested every other year, beginning in the third year after the vehicle's model year, and, for vehicles more than five years old, upon a change of ownership. Certain vehicles, however, are not required to be tested. Specifically, gasoline-powered vehicles older than model year 1996 and diesel-powered vehicles older than model 2007 cannot be tested using current testing methods and so are exempt. In addition, vehicles of model year 1996 to 2006 that are over 8,500 pounds and vehicles of model year 2007 or newer that are over 14,000 pounds are also exempt from testing.

There is no fee paid by the vehicle owner for the initial test, although vehicle owners are responsible for the cost of any required repairs. Vehicles that fail an emissions test must be repaired and pass a subsequent test.

Beginning in July, 2012, the testing process was changed from a centralized to a decentralized system. Currently, testing may be performed at any of about 190 approved motor vehicle service stations. DOT's contractor coordinates the system for approving the facilities and providing testing equipment. The contractor also pays service centers \$2 per test conducted, and \$4 per test if the service center also provides vehicle registration renewal at the time of the test. DOT pays the contractor \$2.6 million per year in transportation fund SEG for these services. Previously, emissions testing was conducted at nine centralized service centers located throughout the testing counties.