

Emissions Inventory Guidance Document

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Appendix A: List of Unit Categories and Unit Types

Category: Activity

Accumulation and Storage
Beryllium Work
Food Processing
Operations
Open Burn
Transportation / Hauling
Research/Testing
Sandblasting

Category: Area

Coal Pile
Landfill
Mine
Processing
Raw Material Pile
Remediation area Roads

Surface Impoundment
Transfer
Unpaved roads

Category: Equipment

Air Curtain
Air Stripper
Amine sweetening unit
Asphalt Drum/Burner
Baler
Batcher
Benzene Waste Operation
Bins-Disposal
Bins-Recycle
Blower/Fan
Boiler
Bottoms Receiver

Burner
Chipper

Compressor
Condenser
Cogeneration
Container
Conveyor
Compactor
Cooling Tower
Crusher
Cryogenic Unit
Distillation unit
Digester
Dryer
Fermenter
Filtration Unit
Fluidized Catalytic
Cracking Unit
Foundry
Freon/Refrig Equipment
Fuel Gas System
Furnace
Gas Collection System
Glycol Dehy Reboiler
Burner
Glycol Dehy Still
Vent/Flash Tank
Grain elevator
Heat Exchanger
Heater
Heater Treater/Stack Pak
Hopper
Incinerator
Internal combustion
engine
Kiln
Loading/Unloading Rack
Machining Equipment
Medical Sterilization
Equipment
Mixer
Nuclear Reactor
Oil/Water Separator
Paint Booth

Parts Washer
Precipitation Plant
Process Cyclone
Process Flare
Process Heater
Pump Station
Pump
Screen
Saws
Shredder
Separator
Silo
Sulfur Recovery Unit
Tank - Above Ground
Tank - Underground
Tank - Vat/Open
Thermal Oxidizer
(Incinerator)
Turbine

Category: Release Point
Fugitives
Stack/Vent
Transfer Point

Category: Treatment
Pump and Treat
Soil Vapor Extraction
Vapor Recovery System
Wastewater Treatment
System

Appendix B: Required General Parameters in AEIR

Unit Category	Unit Type	Required General Parameters
Activity	Accumulation and Storage	Materials Processed
Activity	Aerospace Manf & Rework	Fuel Consumption
Activity	Aerospace Manf & Rework	Fuel Heating Value
Activity	Aerospace Manf & Rework	Fuel Type
Activity	Beryllium Work	Fuel Consumption
Activity	Beryllium Work	Materials Processed
Activity	Open Burn	Materials Processed
Activity	Operations	Fuel Consumption
Activity	Operations	Fuel Heating Value
Activity	Operations	Fuel Type
Activity	Operations	Materials Processed
Activity	Operations	Percent Ash of Fuel
Activity	Operations	Percent Carbon Content
Activity	Operations	Percent Sulfur of Fuel
Activity	Research/Testing	Fuel Type
Activity	Sandblasting	Fuel Type
Area	Landfill	Fuel Type
Area	Landfill	Materials Processed
Area	Processing	Fuel Consumption
Area	Processing	Fuel Type
Area	Processing	Materials Processed
Control Device	Bag House/Filter	Materials Processed
Control Device	Emergency Flare	Fuel Consumption
Control Device	Emergency Flare	Fuel Heating Value
Control Device	Emergency Flare	Fuel Type
Control Device	Emergency Flare	Materials Processed
Control Device	Emergency Flare	Percent Carbon Content
Control Device	Emergency Flare	Percent Sulfur of Fuel
Equipment	Air Curtain	Fuel Consumption
Equipment	Air Curtain	Fuel Heating Value
Equipment	Air Curtain	Fuel Type
Equipment	Air Curtain	Materials Processed
Equipment	Air Curtain	Percent Ash of Fuel

Equipment	Air Curtain	Percent Sulfur of Fuel
Equipment	Asphalt Drum/Burner	Fuel Consumption
Equipment	Asphalt Drum/Burner	Fuel Heating Value
Equipment	Asphalt Drum/Burner	Fuel Type
Equipment	Asphalt Drum/Burner	Materials Processed
Equipment	Asphalt Drum/Burner	Percent Sulfur of Fuel
Equipment	Baler	Materials Processed
Equipment	Bins-Disposal	Materials Processed
Equipment	Bins-Recycle	Materials Processed
Equipment	Boiler	Fuel Consumption
Equipment	Boiler	Fuel Heating Value
Equipment	Boiler	Fuel Type
Equipment	Boiler	Materials Processed
Equipment	Boiler	Percent Ash of Fuel
Equipment	Boiler	Percent Carbon Content
Equipment	Boiler	Percent Sulfur of Fuel
Equipment	Burner	Fuel Consumption
Equipment	Burner	Fuel Heating Value
Equipment	Burner	Fuel Type
Equipment	Burner	Materials Processed
Equipment	Burner	Percent Carbon Content
Equipment	Chipper	Materials Processed
Equipment	Cogeneration	Fuel Consumption
Equipment	Cogeneration	Fuel Heating Value
Equipment	Cogeneration	Fuel Type
Equipment	Cogeneration	Percent Ash of Fuel
Equipment	Cogeneration	Percent Sulfur of Fuel
Equipment	Compactor	Materials Processed
Equipment	Container	Materials Processed
Equipment	Conveyor	Materials Processed
Equipment	Crusher	Materials Processed
Equipment	Distillation unit	Fuel Consumption
Equipment	Distillation unit	Fuel Heating Value
Equipment	Distillation unit	Fuel Type
Equipment	Distillation unit	Materials Processed
Equipment	Distillation unit	Percent Ash of Fuel
Equipment	Distillation unit	Percent Sulfur of Fuel
Equipment	Dryer	Fuel Consumption
Equipment	Dryer	Fuel Heating Value
Equipment	Dryer	Fuel Type
Equipment	Dryer	Materials Processed

Equipment	Dryer	Percent Ash of Fuel
Equipment	Dryer	Percent Carbon Content
Equipment	Dryer	Percent Sulfur of Fuel
Equipment	Filtration Unit	Fuel Consumption
Equipment	Flash Emissions	Fuel Consumption
Equipment	Flash Emissions	Fuel Heating Value
Equipment	Flash Emissions	Fuel Type
Equipment	Flash Emissions	Percent Ash of Fuel
Equipment	Flash Emissions	Percent Sulfur of Fuel
Equipment	Fluidized Catalytic Cracking Unit	Fuel Consumption
Equipment	Fluidized Catalytic Cracking Unit	Fuel Heating Value
Equipment	Fluidized Catalytic Cracking Unit	Fuel Type
Equipment	Fluidized Catalytic Cracking Unit	Percent Ash of Fuel
Equipment	Fluidized Catalytic Cracking Unit	Percent Sulfur of Fuel
Equipment	Foundry	Fuel Consumption
Equipment	Foundry	Fuel Heating Value
Equipment	Foundry	Fuel Type
Equipment	Foundry	Materials Processed
Equipment	Foundry	Percent Ash of Fuel
Equipment	Foundry	Percent Sulfur of Fuel
Equipment	Fuel Gas System	Fuel Consumption
Equipment	Fuel Gas System	Fuel Heating Value
Equipment	Fuel Gas System	Fuel Type
Equipment	Fuel Gas System	Materials Processed
Equipment	Fuel Gas System	Percent Ash of Fuel
Equipment	Fuel Gas System	Percent Sulfur of Fuel
Equipment	Furnace	Fuel Consumption
Equipment	Furnace	Fuel Heating Value
Equipment	Furnace	Fuel Type
Equipment	Furnace	Percent Ash of Fuel
Equipment	Furnace	Percent Carbon Content
Equipment	Furnace	Percent Sulfur of Fuel
Equipment	Gas Collection System	Fuel Consumption
Equipment	Gas Collection System	Fuel Heating Value
Equipment	Gas Collection System	Fuel Type
Equipment	Gas Collection System	Percent Carbon Content
Equipment	Glycol Dehy Reboiler Burner	Fuel Consumption

Equipment	Glycol Dehy Reboiler Burner	Fuel Heating Value
Equipment	Glycol Dehy Reboiler Burner	Fuel Type
Equipment	Glycol Dehy Reboiler Burner	Percent Carbon Content
Equipment	Glycol Dehy Reboiler Burner	Percent Sulfur of Fuel
Equipment	Grain elevator	Materials Processed
Equipment	Heater	Fuel Consumption
Equipment	Heater	Fuel Heating Value
Equipment	Heater	Fuel Type
Equipment	Heater	Percent Ash of Fuel
Equipment	Heater	Percent Carbon Content
Equipment	Heater	Percent Sulfur of Fuel
Equipment	Heater Treater/Stack Pak	Fuel Consumption
Equipment	Heater Treater/Stack Pak	Fuel Heating Value
Equipment	Heater Treater/Stack Pak	Fuel Type
Equipment	Heater Treater/Stack Pak	Percent Sulfur of Fuel
Equipment	Hopper	Materials Processed
Equipment	Incinerator	Fuel Consumption
Equipment	Incinerator	Fuel Heating Value
Equipment	Incinerator	Fuel Type
Equipment	Incinerator	Materials Processed
Equipment	Internal combustion engine	Fuel Consumption
Equipment	Internal combustion engine	Fuel Heating Value
Equipment	Internal combustion engine	Fuel Type
Equipment	Internal combustion engine	Percent Ash of Fuel
Equipment	Internal combustion engine	Percent Carbon Content
Equipment	Internal combustion engine	Percent Sulfur of Fuel
Equipment	Kiln	Fuel Consumption
Equipment	Kiln	Fuel Heating Value
Equipment	Kiln	Fuel Type
Equipment	Kiln	Materials Processed
Equipment	Kiln	Percent Ash of Fuel
Equipment	Kiln	Percent Sulfur of Fuel
Equipment	Loading/Unloading Rack	Materials Processed
Equipment	Medical Sterilization Equipment	Fuel Consumption
Equipment	Medical Sterilization Equipment	Fuel Heating Value
Equipment	Medical Sterilization Equipment	Fuel Type
Equipment	Medical Sterilization Equipment	Percent Ash of Fuel

Equipment	Medical Sterilization Equipment	Percent Sulfur of Fuel
Equipment	Mixer	Materials Processed
Equipment	Oil/Water Separator	Fuel Consumption
Equipment	Piping	Materials Processed
Equipment	Process Flare	Fuel Consumption
Equipment	Process Flare	Fuel Heating Value
Equipment	Process Flare	Fuel Type
Equipment	Process Flare	Materials Processed
Equipment	Process Flare	Percent Carbon Content
Equipment	Process Flare	Percent Sulfur of Fuel
Equipment	Process Heater	Fuel Consumption
Equipment	Process Heater	Fuel Heating Value
Equipment	Process Heater	Fuel Type
Equipment	Process Heater	Percent Ash of Fuel
Equipment	Process Heater	Percent Sulfur of Fuel
Equipment	Pump Station	Materials Processed
Equipment	Screen	Materials Processed
Equipment	Separator	Materials Processed
Equipment	Shredder	Materials Processed
Equipment	Silo	Materials Processed
Equipment	Sulfur Recovery Unit	Fuel Consumption
Equipment	Sulfur Recovery Unit	Fuel Heating Value
Equipment	Sulfur Recovery Unit	Fuel Type
Equipment	Sulfur Recovery Unit	Percent Carbon Content
Equipment	Sulfur Recovery Unit	Percent Sulfur of Fuel
Equipment	Tank - Above Ground	Materials Processed
Equipment	Tank - Vat/Open	Materials Processed
Equipment	Thermal Oxidizer (Incinerator)	Fuel Consumption
Equipment	Thermal Oxidizer (Incinerator)	Fuel Heating Value
Equipment	Thermal Oxidizer (Incinerator)	Fuel Type
Equipment	Thermal Oxidizer (Incinerator)	Materials Processed
Equipment	Thermal Oxidizer (Incinerator)	Percent Carbon Content
Equipment	Thermal Oxidizer (Incinerator)	Percent Sulfur of Fuel
Equipment	Turbine	Fuel Consumption
Equipment	Turbine	Fuel Heating Value

Equipment	Turbine	Fuel Type
Equipment	Turbine	Percent Ash of Fuel
Equipment	Turbine	Percent Carbon Content
Equipment	Turbine	Percent Sulfur of Fuel
Treatment	Wastewater Treatment System	Materials Processed

Note: The Control Device categories, highlighted in red, are used in existing equipment; control device as a category is no longer accepted for newly added equipment. Control Devices such as flares and thermal oxidizers should be listed under the category of equipment. Refer to Appendix A for a complete list of all unit categories and types.

Appendix C: Representative Analysis Criteria

Oil/Liquid Analysis: Oil/liquid sample analyses are required. It should match the inputs in all applicable emission calculations. For facilities that have not been constructed yet and a representative sample analysis is used then the analysis should not be older than 3 years, and it should represent the area/basin where the facility is located. For existing facilities, the representative sample analysis must be within the past 3 years.

Gas Analysis: Gas sample analyses are required, and it should match the inputs in all applicable emission calculations.

Extended Gas Analysis (must be 3 years old or less): This data is required to match the inputs in all applicable emission calculations.

Note: If requesting to use a representative gas or oil/liquid sample, include a discussion of why the sample is representative for this facility and an explanation of how it is representative (e.g., same reservoir, same API gravity, similar composition). Provide this discussion with your attached calculations.

Appendix D: Online Resources

Calcatenate

<https://www.env.nm.gov/air-quality/calcatenate/>

Emissions Inventory Submittal Webpage (contains information on how to access AEIR, this guidance document, XML tool, public training information)

<https://www.env.nm.gov/air-quality/ei-submittal/>

EPA Emission Factors

<https://www.epa.gov/chief>

Hazardous Air Pollutants (HAPs) List

<https://www.epa.gov/haps/initial-list-hazardous-air-pollutants-modifications>

NAICS Codes and Updates

<https://www.naics.com>

<https://www.naics.com/changes-from-2012-2017-naics-structures-highlights-highlights/> <https://www.naics.com/2022-naics-changes/>

New Mexico Administrative Codes (NMAC)

<http://www.srca.nm.gov/chapter-2-air-quality-statewide/>

NMED Air Quality Bureau (AQB)

<https://www.env.nm.gov>

SCC

<https://ofmpub.epa.gov/sccwebservices/sccsearch/>

<https://ofmpub.epa.gov/sccwebservices/sccsearch/docs/SCC-IntroToSCCs.pdf>

SIC Codes

www.osha.gov/pls.imis/sicsearch.html

Appendix E: Air Quality Glossary

ACFM Actual cubic feet per minute. A measurement of exhaust rate from a release point.

Actual Emissions are the actual rate of emissions of a pollutant from an emission unit calculated using the emission unit's actual operating hours, production rates, and types of materials processed, stored, or combusted for the calendar year.

AEIR Air Emissions Inventory Reporting is the web-based application used to submit emissions inventory.

Agency Interest is NMED's identifier for a facility, which is a number that is usually between three and five digits.

Annual Throughput is the quantity of raw material processed, handled, or used in an emission unit, such as fuels, solvents, coatings, or quantity of dust-producing material processed, handled, or transferred.

Air Pollutant is generally any substance in the air not part of the naturally occurring makeup of ambient air or that occurs in un-natural concentrations. In New Mexico, this usually refers to toxic air pollutants, hazardous air pollutants, and criteria air pollutants.

Allowable Emissions refers to the emissions rate that represents a limit on the emissions that can occur from an emissions unit. This limit may be based on federal, state, or local regulations.

Ambient Standards limit the concentration of a given pollutant in the ambient air. Ambient standards are not emissions limitations on sources, but usually result in such limits being placed on source operation as part of a control strategy to achieve or maintain an ambient standard.

Ammonia is a colorless gas with a very distinct odor. Ammonia emissions are important to air quality analyses because ammonia is involved in the formation of sulfate and nitrate, which are precursors for PM_{2.5}. Primary ammonia remains in the same chemical form as when it was emitted into the atmosphere. Secondary ammonia, such as ammonium sulfate and ammonium nitrate, is formed by chemical reactions in the atmosphere. Only primary ammonia needs to be reported.

Attainment Area is an area considered to have air quality as good as or better than the National Ambient Air Quality Standards (NAAQS) as defined in the Clean Air Act. An area may be in attainment for one or more pollutants but be a nonattainment area for one or more other pollutants.

Capture Efficiency is the percentage of pollutant emitted from an emission unit that is caught or

captured by a hood or other collection mechanism. An example is a fume hood above a painting/coating station.

Carbon Monoxide (CO) is a colorless, odorless gas that is a product of incomplete combustion. It depletes the oxygen-carrying capacity of blood. Example sources of CO emissions include industrial boilers, incinerators, and motor vehicles.

CAS Number refers to the Chemical Abstract Services number. CAS numbers are often found on Material Safety Data Sheets and are sometimes used to identify air pollutants.

CFR is the Code of Federal Regulations. This is a collection of rules published by the federal government. Title 40 of the CFR pertains to Protection of the Environment.

Continuous Emissions Monitoring Equipment that measures the concentration or emission rate of a gas or particulate matter using analyzer measurements and a conversion equation, graph, or computer program. Installation and operation of a CEM may be required by EPA or NMED to determine compliance with specific standards. The operation of a CEM must meet performance specifications, certification procedures, and recordkeeping and reporting requirements as specified in applicable regulations.

Construction Permits are required before installing or altering equipment or control equipment, with a goal of preventing significant deterioration or degrading of clean air areas from new industrial development or expansion.

Control Efficiency is the emission reduction efficiency of a device and is a percentage value representing the amount of an emission unit's emissions that are removed from the exhaust stream by a control device.

Criteria Pollutant refers to a pollutant for which a National Ambient Air Quality Standard has been set. Criteria pollutants are carbon monoxide (CO), lead (Pb), nitrogen oxides (NO_x), ozone (O₃), particulate matter with aerodynamic diameter less than or equal to 10 micrometers (PM₁₀) or less than or equal to 2.5 micrometers (PM_{2.5}), and sulfur dioxide (SO₂).

Emergency Generator means any generator whose sole function is to provide backup power during an interruption of electrical power from the electric utility. An emergency generator does not include peaking units at electric generating facilities; generators at industrial facilities that typically operate at low rates but are not confined to emergency purposes; or any standby generators that are used during time periods when power is available from the electric utility. An emergency is an unforeseeable condition that is beyond the control of the owner or operator.

Emission means pollution discharged into the atmosphere from exhaust stacks, other vents,

and surface areas of commercial or industrial facilities; from residential chimneys; and from motor vehicle, locomotive, aircraft, or other non- road engines.

Emission Factors represent the relationship between the amount of pollution produced and the amount of raw material(s) processed. For example – pounds of CO per ton of coal fired.

Emission Inventory is a listing, by source, of the amount of air pollutants discharged into the atmosphere.

Emission Limits are limits on emissions that may be federally enforceable and exist in a permit. Such limits are usually expressed as a rate, generally in pounds per hour of emissions or as a concentration, such as grains per dry standard cubic foot (7,000 grains equals one pound).

Release point is the point where emissions enter the atmosphere, such as stacks, vents, and ventilation exhausts. The term release point is used interchangeably with release point.

Emission Unit is a piece of equipment where emissions are generated. Emission units may have one or more processes with actual emissions. Some examples of an emission unit with one or more processes are boilers (the ability to burn both natural gas and fuel oil), generators (the ability to burn both fuel oil and dual fuel), and grain dryers (the ability to dry grain and burn natural gas).

Engineering Estimate is a term commonly applied to the best approximation that can be made when specific emission estimation techniques such as stack testing, material balance, or emission factors are not possible. This estimation is usually made by an engineer familiar with the specific process and is based on process information.

Federally Enforceable means all limitations and conditions which are enforceable by the EPA administrator including, but not limited to, the requirements of new source performance standards, national emission standards for hazardous air pollutants, state rules (included as part of the state implementation plan (SIP)), administrative orders, construction permits, and operating permits.

Fugitive Emissions are emissions that cannot reasonably pass through a stack, chimney, duct, vent or other opening. Fugitive emission sources can include haul roads, exposed storage piles, and wastewater retention ponds, etc.

HAP or Hazardous Air Pollutants are any of the 187 pollutants listed in Section 112 of the 1990 Clean Air Act Amendments. HAPs are known or suspected of being toxic or carcinogenic.

Indirect Heating occurs when the material being heated does not come in direct contact with the combustion gas, such as a hot water boiler.

MMcf equals 1,000,000 cubic feet. This unit of measure is most typically associated with the amount of natural gas combusted.

Material Balance or Mass Balance A process of estimating emissions using knowledge of the process, process rate, material used, and material properties.

MACT or Maximum Achievable Control Technology are standards set under Title III of the 1990 Clean Air Act Amendments with an emphasis on technology control of hazardous air pollutants.

Maximum True Vapor Pressure means the equilibrium partial pressure of the material considering: 1) for a material stored at ambient temperature, the maximum monthly average temperature as reported by the National Weather Service, or 2) for a material stored above or below the ambient temperature, the temperature equal to the highest calendar-month average of the material storage temperature.

National Ambient Air Quality Standards (NAAQS) are the main ambient standards for the six criteria pollutants identified above.

National Emission Standards for Hazardous Air Pollutants (NESHAP) are health-based standards set under the 1970 Clean Air Act for beryllium, mercury, vinyl chloride, benzene, arsenic, asbestos, radon, radionuclides and other HAPs. Under the 1990 Act, roughly 170 source categories are identified for eventual MACT regulations. See MACT definition above. The NESHAPs are published in 40 CFR Parts 61 and 63.

New Source Performance Standards (NSPS) are promulgated for criteria and other pollutant emissions from new, modified, or reconstructed sources that the U.S. EPA determines contribute significantly to air pollution. These are typically emission standards but may be expressed in other forms such as concentration and opacity. The NSPS are published in 40 CFR Part 60.

Nitrogen Oxides (NO_x) are a class of compounds that are respiratory irritants that react with volatile organic compounds (VOCs) in the presence of sunlight to form Ozone. NO_x compounds are also precursors to acid rain. Motor vehicles, power plants, and other stationary combustion facilities emit large quantities of NO_x.

North American Industrial Classification System (NAICS) A North American system for classifying industries by a six-digit code. This six-digit hierarchical structure allows greater coding flexibility than the four-digit structure of the SIC. NAICS allows for the identification of 1,063 industries compared to the 1,004 found in the SIC system.

Operating Permits are permits required by Title V of the 1990 Act for major sources. Operating permits are for the facility as a whole and differ from construction permits, which are issued for individual release points.

Overall Control Efficiency is obtained by multiplying the capture efficiency by the control

equipment control efficiency to provide the overall control efficiency for reporting emissions.

Ozone (O_3) is a colorless gas that damages lungs and can damage materials and vegetation. It is the primary constituent of smog and is formed primarily when nitrogen oxides (NO_x) and volatile organic compounds (VOCs) react in the presence of sunlight.

Particulate Matter of aerodynamic diameter less than or equal to 10 micrometers (PM₁₀) is a measure of small solid matter suspended in the atmosphere. Small particles can penetrate deeply into the lung where they can cause respiratory problems. Emissions of PM₁₀ are significant from fugitive dust, power plants, commercial boilers, metallurgical industries, mineral industries, fires, and motor vehicles.

Particulate Matter of aerodynamic diameter less than or equal to 2.5 micrometers (PM_{2.5}) is another measure of small solid matter suspended in the atmosphere. Primary PM_{2.5} particulate results largely from combustion of fossil fuels or biomass, although selected industrial processes can also be significant in some areas. The sources of PM_{2.5} include, but are not limited to, gasoline and diesel exhaust, wood stoves and fireplaces, land clearing, wildland prescribed burning, and wildfires. Sources of primary particulate including fugitive emissions from paved and unpaved roads, dust from ore processing and refining, and to a lesser extent, crustal material from construction activities, agricultural tilling, wind erosion and other crustal sources are less important based on their relatively small contribution to ambient PM_{2.5} concentrations. The condensable components are largely made up of semi-volatile organic compounds that condense at ambient temperature to form aerosol.

Release Point is the point where emissions enter the atmosphere such as stacks, vents and ventilation exhausts. The term release point is used interchangeably with release point.

Reported Emissions are those emission estimates that are submitted to a regulatory agency. Emission inventories are used for a variety of purposes such as planning pollution control programs, promoting compliance with laws and regulations, and conducting permit reviews.

MSDS or Material Safety Data Sheets are an information source with details about the chemical composition of a material, safe handling, and transportation data and other environmental information. An MSDS can be a useful source of emission information and are available for all chemical substances from the supplier of the material.

Source Classification Codes (SCCs) are codes defined by EPA that classify air emission sources by individual processes and/or operations.

Stack Tests A test that measures the concentration of pollutants in the exhaust stack. Measurements are performed following procedures specified and developed by the US EPA. Such testing is required by NMED to be conducted by various stationary sources to determine compliance with applicable air emission limits.

SCFM Standard cubic feet per minute. A measurement of exhaust rate from a release point.

Standard Industrial Classification (SIC) A United States government system for classifying industries by a four-digit code.

State Implementation Plan (SIP) is a state plan approved by EPA for the implementation, regulation, and enforcement of air pollution standards.

Stationary Source is any building, structure, facility or installation which emits or may emit any air pollutant subject to regulation under the Clean Air Act. It includes all pollutant emitting activities which belong in the same major industrial grouping as identified by the first two digits in the facilities SIC code, are located on one or more contiguous or adjacent properties and are under common ownership or control.

Sulfur Oxides (SO_x) are a class of colorless, pungent gases that are respiratory irritants and precursors to acid rain. Sulfur oxides are emitted from various combustion or incineration sources, particularly from coal combustion.

Threshold is the level of emissions that once reached, triggers certain requirements to obtain a permit, to submit GHG emissions, etc.

Volatile Organic Compounds (VOCs) are organic compounds that contribute to ground-level ozone or smog formation. Ground level ozone is a strong lung oxidant. Large amounts of VOCs are emitted from fuel distribution, chemical manufacturing, motor vehicles, and a wide variety of industrial, commercial, and consumer solvent use.

Appendix F: Abbreviations

ACFM	Actual cubic feet per minute
ACT	Activity
AECT	Air Emissions Calculation Tool
AEIR	Air Emissions Inventory Reporting
AI	Agency Interest Number
AQB	Air Quality Bureau
CAA	Clean Air Act
CAS	Chemical Abstract Service Registry number
CFR	Code of Federal Regulation
CHIEF	Clearinghouse for Inventories and Emission Factors
CO	Carbon Monoxide
EI	Emissions Inventory
EQPT	Equipment
gr/dscf	grains per dry standard cubic foot
HAP	Hazardous Air Pollutant
lbs/hr	pounds per hour
lbs/MMBtu	pounds per million British thermal units
per million cubic ft	lbs/MMcf pounds
MACT	Maximum Achievable Control Technology
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
MSEI	Minor Source Emission Inventory
NAAQS	National Ambient Air Quality Standards
NAICS	North American Industrial Classification System
NESHAP	National Emission Standards for Hazardous Air
Pollutants NO _x	Nitrogen Oxides
NSPS	New Source Performance Standards
NSR	New Source Review
°F	degrees Fahrenheit
PM ₁₀	Particulate Matter less than or equal to 10 micrometers in diameter
	PM _{2.5} Particulate Matter less than or equal to 2.5 micrometers in diameter
	Ppb parts per billion
Ppm	parts per million
ppmv	parts per million by volume
RPNT	Release Point
SCC	Source Classification Code
SCFM	Standard cubic feet per minute
SI	Subject Item
SIC	Standard Industrial Classification
SO ₂	Sulfur Dioxide
TPY	Tons per year
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds

Appendix G: Accessing Air Emissions Inventory Reporting (AEIR)

- 1) Click link: <https://sep.net.env.nm.gov/sep/login-form> and click on **Register**.



The screenshot shows the login interface for the New Mexico Environment Department's Secure Extranet Portal (SEP). The header includes the New Mexico Environment Department logo and the text "New Mexico ENVIRONMENT Department" and "Secure Extranet Portal (SEP)". A prominent orange "Register" button is located on the left. Below the header, a message states: "Please Log In: State Employees should log in with their state email address and password". The login form contains fields for "User ID:" (with the example "roslyn.higgin@state.nm.us") and "Password:" (masked with dots). A "Reset Password" link is provided below the password field. At the bottom of the form are "Login" and "Reset" buttons. A "Secure Site" icon is also present. Below the login fields, there is a "NOTICE" and a "WARNING" section. The "NOTICE" states that access is restricted to authorized personnel. The "WARNING" states that any use or activity may be monitored. A link to register for an NMED application is provided. The footer includes the date "Released 08-23-2018".


Register

Please Log In: State Employees should log in with their state email address and password

User ID:

Password:

[Reset Password](#)


 Secure Site

NOTICE: Access to the New Mexico Environment Department (NMED) Secure Extranet Portal (SEP) is restricted to authorized personnel only. Any unauthorized access is in violation of federal and/or state laws. *DO NOT PROCEED IF YOU ARE NOT AUTHORIZED.*

WARNING: Any use or activity may be monitored. Files and other information created, stored, transferred or otherwise manipulated may also be monitored.

Registration is required. [Click here to register for an NMED application.](#)

Released 08-23-2018



New Mexico ENVIRONMENT Department

NMED Registration Request


Login

Register for an NMED Application

Please provide your email address below so that we may send you a link to begin the registration process.
State employees should click Login to log in with their state email address and password.

Your Email Address:

Confirm Email Address:

Enter code on the right: 

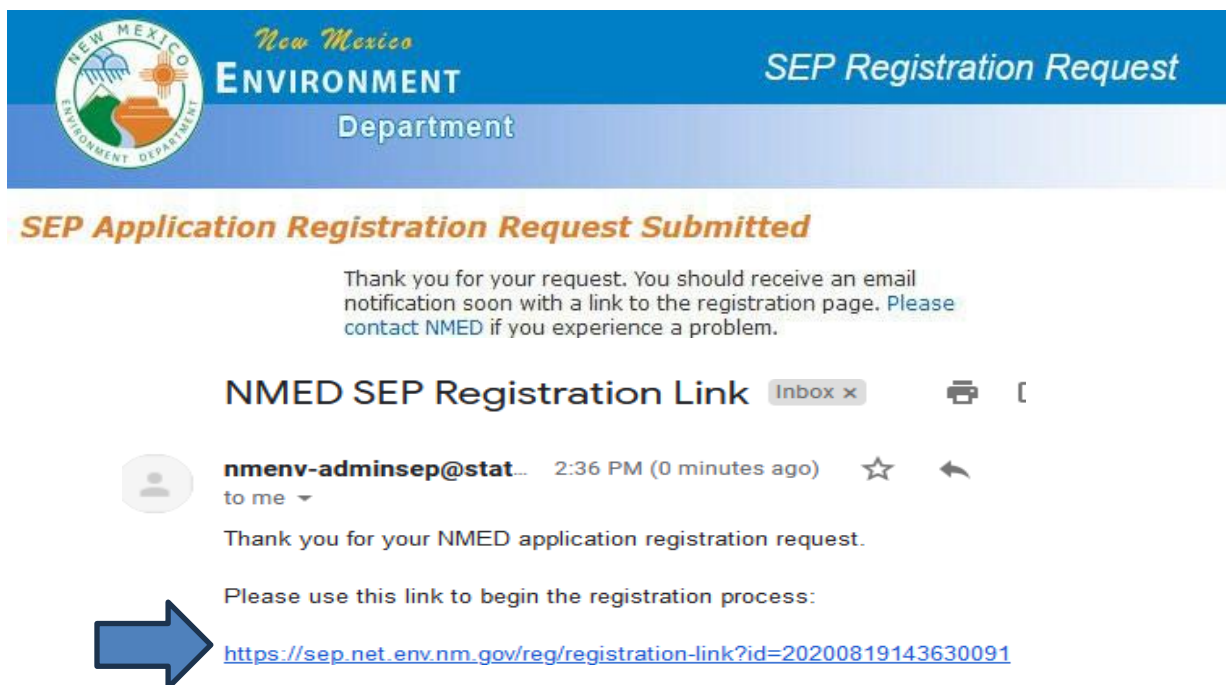
Submit

NOTICE: Access to the New Mexico Environment Department (NMED) Secure Extranet Portal (SEP) is restricted to authorized personnel only. Any unauthorized access is in violation of federal and/or state laws. *DO NOT PROCEED IF YOU ARE NOT AUTHORIZED.*


WARNING: Any use or activity may be monitored. Files and other information created, stored, transferred or otherwise manipulated may also be monitored.

Released 08-23-2018

- 2) You will receive an email notification with a unique link to the registration page (example email is also below). Click on the hyperlink in the email.



- 3) Fill out your profile information, then click “Create User Profile” button and you will be emailed a temporary password.



New Mexico
ENVIRONMENT
Department

Application Registration - New User Profile

Please enter your profile information.

Please complete the following user profile to begin registration for an NMED application.

First Name:*	M.I.:	Last Name:*	Title:*
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="Select one"/>

Organization/Company:*	Department:	Employment:*
<input type="text"/>	<input type="text"/>	<input type="text" value="Select one"/>

Street Address:*	Street Address 2:
<input type="text"/>	<input type="text"/>

City:*	State	ZIP Code:*
<input type="text"/>	<input type="text" value="New Mexico"/>	<input type="text"/>

Primary telephone Number:*	Fax Number:
<input type="text"/> - <input type="text"/> - <input type="text"/> ext.: <input type="text"/>	<input type="text"/> - <input type="text"/> - <input type="text"/>

Email Address:*	Confirm Email Address:*
<input type="text" value="testaeir@gmail.com"/>	<input type="text" value="testaeir@gmail.com"/>

Choose a User ID:*

Create User Profile



Click Here

4) Register for “Air Emissions Inventory Reporting” by clicking “register”.

Select an NMED Application for Registration

Application	Description	Access
API Security	API Security Portal for NMED applications.	register
AQB Compliance Reporting	The Air Quality Bureau Compliance Reporting System	register
AQB Regulatory Archives	AQB Regulatory Archives	register
Air Cloud ResourceSpace	Air Cloud ResourceSpace for SEP	register
Air Emissions Inventory Reporting	Air Quality Bureau Air Emissions Inventory Reporting (AEIR) application to allow facilities to electronically submit an annual emissions inventory report to NMED.	register
Corrective Action Fund	PSTB's financial application for managing and tracking of release site cleanup funds. (PSTB STAFF ONLY)	register
Drinking Water Bureau Board Training Database	Drinking Water Bureau Board Training Database	register
Drinking Water Sample Collection	DWSC supports the capture of drinking Water sample data and the submission of lab results.	register
GetBytes	RESTful Services Aggregator Application	register
LabTo State (Error Reporting App)	A tool to assist laboratories and other entities with formatting, validating, and submitting water sample data to their primary agency.	register
OIT Cloud ResourceSpace	OIT Cloud ResourceSpace For SEP	register
OIT Wiki	Office of Information Technology Wiki.	register
OSHA Consult	OHSB Request A Free Safety And Health Consultation Report with update/delete option	register
OSHA Mail	List of email addresses that will receive an email from consult form	register

You will receive the confirmation below that your NMED Application Registration is Complete.



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Application Registration Complete

NMED Application Registration Complete

Thank you for your application registration.

The application approver for **Air Emissions Inventory Reporting**, has been notified of your registration request and you should be contacted soon. Please [contact NMED](#) if you need further assistance.

[You may return to SEP now.](#)

You will receive an email with a temporary password for AEIR. Use this password to log into AEIR:
<https://sep.net.env.nm.gov/sep/login-form>.



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Secure Extranet Portal Applications

Applications **Profile** **Log out**

Welcome Roslyn! Please select your application to begin.

<i>Application</i>	<i>Description</i>	<i>Access</i>
AQB Compliance Reporting	The Air Quality Bureau Compliance Reporting System	approved
AQB Regulatory Archives	AQB Regulatory Archives	approved
Air Emissions Inventory Reporting	Air Quality Bureau Air Emissions Inventory Reporting (AEIR) application to allow facilities to electronically submit an annual emissions inventory report to NMED.	approved

- 5) On the AEIR home page, select the link to register for additional facilities/roles (red arrow below). The page shown below will appear.

[Home](#)
[About AEIR](#)
[Logout](#)

Welcome to the New Mexico Environment Department Air Quality Bureau Annual Air Emissions Reporting Home Page

News and Information

Important NMED News for Air Emissions Inventory Reporters

Welcome Minor and Major Sources! 2020 Emissions Inventory Submittals are due to the Bureau on **April 1st, 2021.**

Notes:

- AEIR will be available for reporting of 2020 emissions starting on **January 1, 2021.**
- GCP 2, 3, 5, 6, and NOIs can now add equipment
- We recommend using the latest version of Firefox or Chrome for best compatibility with AEIR
- Reminder: Calculations Must be Attached
- For combustion equipment, be sure to fill out the Supplemental Parameters section on Fuel Type
- For questions, please contact Roslyn Higgin (505-476-4319 or roslyn.higgin@state.nm.us) or Sean Leister (505-222-9528 or sean.leister@state.nm.us)

[Click here to register for additional facilities and/or register for additional roles at your existing facilities.](#)

Facility Emissions Reporting

[Click here to register for additional facilities and/or register for additional roles at your existing facilities](#)

[Edit Submittal](#)
[Certify Submittal](#)
[View Certified Submittal](#)
[Delete In Process Submittal](#)

[Get Current XML File](#)

Create New Emissions Inventory

Facility Source Classification:

Facility:

Reporting Year:

[Create New Annual Reporting Year Submittal](#)

OR

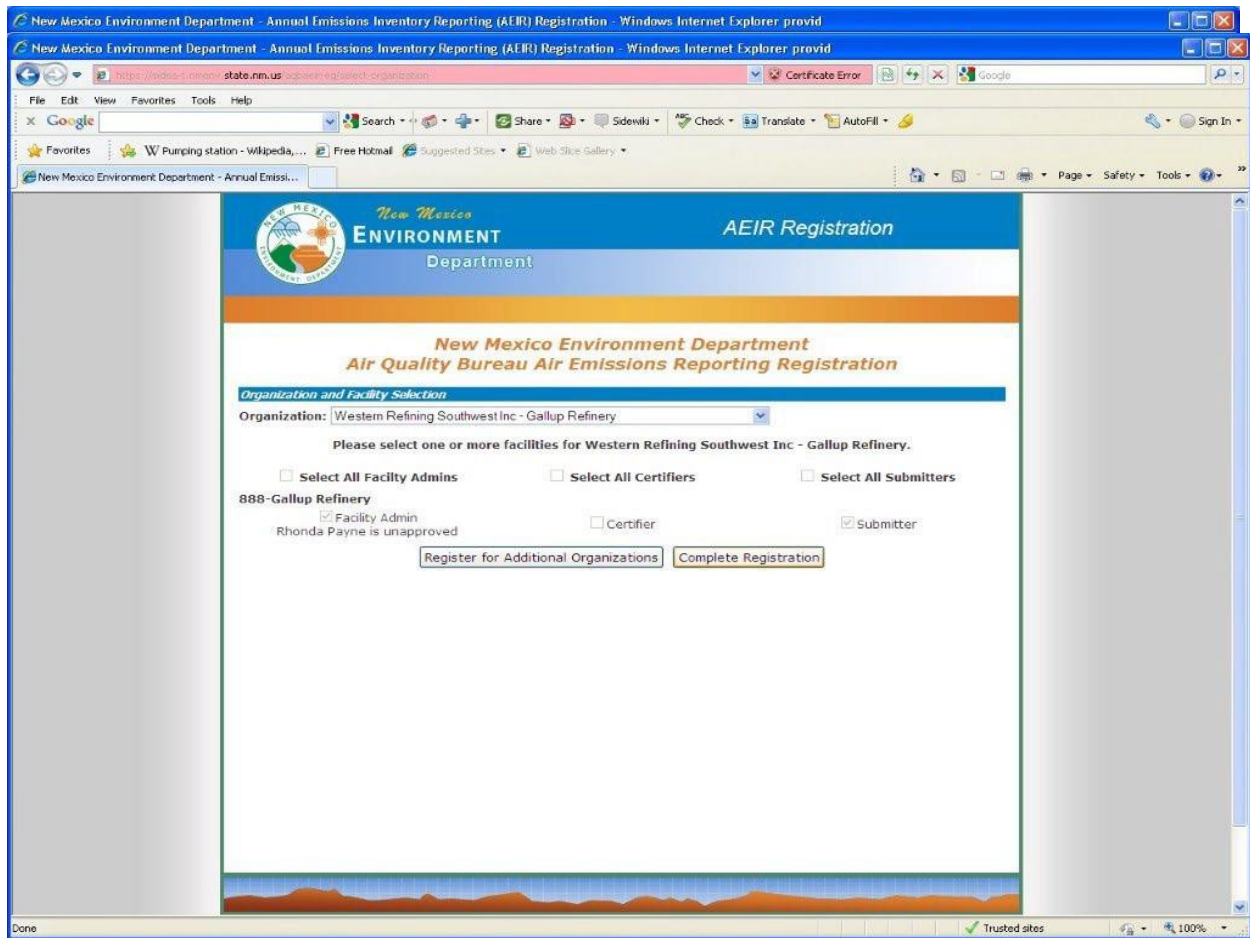
XML Data File: No file selected.

[Import an XML Data File For a New Submittal](#)

[Click here to download the latest XML Schema file](#)

Application Release 19-December-2019

- 6) Select your organization from the drop-down menu and associated facilities will appear. Roles can be checked through the “Select All” button or chosen individually. Select the “Register for Selected Facilities” button when finished.



NOTE: The Emissions Inventory Section will approve the Facility Administrator for facilities, and Submitter/Preparer and Certifier roles requests will be approved by the Facility Administrator for that facility.