



City of Albuquerque
Environmental Health Department
Air Quality Division
11850 Sunset Gardens SW
Albuquerque, New Mexico 87121
Telephone: (505) 768-1930 Fax: (505) 768-1977



Please answer all questions applicable to your specific business, operation and products. Use the abbreviation "N.A." for "not applicable" wherever appropriate.

SECTION 1 - GENERAL INFORMATION (20.11.42 NMAC)

{Specific instructions corresponding to numbers in brackets are included in the application package.}

1. Company Name:{1} _____
 2. Application Date: _____
 3. Company Mailing Address: _____ 4.Phone: _____
 5. Owner's Name:{2} _____ 6. Phone: _____
 7. Owner's Address: _____
 8. Plant Name:{3} {if different from 1} _____ 9. Phone: _____
 10. Plant Address:{if different from 3.} _____
 11. Operator of Plant:{4} _____ 12. Phone: _____
 13. Plant Operator Address: _____
 14. Responsible Official {5}: _____ 15. Phone: _____
 16. Address of Responsible Official: _____
 17. Person to Contact at Site {6}: _____ 18. Title: _____ 19. Phone: _____
 20. Owner's Agent(s):{7} _____ 21. Phone: _____
 22. Company's State of Incorporation or Registration to do Business: _____
 23. Company's Corporate or Partnership Relationship to any other Air Quality Permittee: {8} _____
 24. Name of Parent Company: {9} _____
 25. Address of Parent Company: _____
 26. Names of Subsidiary Companies: {10} _____
 27. Air Quality Permits for this Source Already Received: (Permit Number(s)) _____
 28. Other Air Quality Permits Issued to this Applicant: (Permit Number(s)) _____
 29. Reason this source must have a Part 42 operating permit: {11} _____
 30. Is U.S.G.S. quadrangular map or equivalent attached? {12} _____
 31. Ownership of land at plant site (private, State, Federal, Indian, etc.): _____
- NOTE: If the land at the plant site is Indian land, contact the Air Pollution Control Division Engineering staff for assistance.
32. Distance, in meters, of plant site to nearest residence, school or occupied structure:{13} _____

33. Location of Plant:

33A. City or County: _____ 33B. Direction and distance from nearest town _____

33C. UTM Zone: _____ UTME: _____ km UTMN: _____ km

33D. Range: _____ Township: _____ Section: _____ 30E. Latitude: Longitude: _____

34. Plant Elevation _____ ft above mean sea level

35. Describe briefly type of plant and nature of processes (or modification) and products, including primary and secondary SIC codes: {14} _____

36. Describe briefly any processes or products associated with any alternative operating scenarios described in this application, including primary and secondary SIC codes {15}: _____

37. Plant's Maximum Allowable Hourly and Annual Capacities (specify units) {16}: Hourly: _____

Annual _____

38. Permit Renewals or Significant Modifications

38A. Is this an application for an operating permit renewal or significant modification? Yes _____ No _____

38B. If yes, when does the current operating permit expire? _____

39. Is this a portable or temporary source {17}? Yes _____ No _____

39A. If yes, provide identifying numbers (e.g. serial numbers): _____

39B. If yes, date of anticipated startup: _____ 40C. If yes, date of anticipated relocation: _____

40. Operational Periods: (20 NMAC 11.42.II.1.1.D.5.f.)

38B. If yes, when does the current operating permit expire? _____

40A. Specify **standard** operational periods:

_____ hours per day, _____ am to _____ pm, _____ days per week, _____ weeks per month _____ months per y

40B. Specify **maximum** operational periods:

_____ hours per day, _____ am to _____ pm, _____ days per week, _____ weeks per month _____ months per y

SECTION 2 AIR POLLUTANT EMISSIONS RATES PRIOR TO CONTROL OR ABATEMENT EQUIPMENT OR TO ATMOSPHERE IF UNCONTROLLED (20 NMAC 11.42.II.1.1.D.)

(Use additional sheets if necessary)

UNIT No. {1}	EMISSIONS UNIT, PROCESS or OPERATION {2}	UNCONTROLLED AIR POLLUTANT EMISSION RATES {3}		MEASUREMENT OR ESTIMATION METHOD {6}	APPLICABLE REQUIREMENT(s) {7}
		Pollutant {4}	Quantity {5}		
			lb/hr		
			tn/yr		
			lb/hr		
			tn/yr		
			lb/hr		
			tn/yr		
			lb/hr		
			tn/yr		
			lb/hr		
			tn/yr		
			lb/hr		
			tn/yr		
			lb/hr		
			tn/yr		
			lb/hr		
			tn/yr		
			tn/yr		

Section 2: Air Pollutant Emissions Rates Prior to Control or Abatement Equipment, or to Atmosphere if Uncontrolled

Each piece of equipment in the facility that emits air pollutants must be listed in this section. Maximum possible emissions rates **prior** to air pollution control equipment, waste abatement equipment, process control capture equipment, or to the atmosphere for uncontrolled emissions are to be provided in this section. Calculations made to determine the values shown on the form are to be shown and referenced in Package Element 6 (Emissions Calculations).

These emissions include: pollutants for which the source is major; regulated air pollutants; all fugitive emissions; and any hazardous or toxic air contaminants emitted as part of plant processes. If products or raw materials are stored and pollutants are passively released through off gassing while in storage, these pollutants must also be listed. Emissions from flares and wood waste burners should be listed in this section.

Notes

- {1} Use the process or operation equipment unit numbers that were assigned to each piece of equipment in Package Element 4A (Process Flow Sheets) above. For fugitive emissions, describe the source of the emissions. For liquid tank and solid material storage, use the tank or storage unit number.
- {2} For example: boiler, catalyst regeneration units, flare, furnace, gas engine, haul road, iron melting cupola, material dryer, process fugitive, silo, smelter furnace, solvent cleaner, storage tanks, etc.
- {3} Use one line for each pollutant emitted by each piece of equipment. Attach additional sheets if required.
- {4} List each pollutant defined by EPA to be a regulated air pollutant that this source emits. Also list all other pollutants for which this source is major. Provide trade name or common name and chemical composition if known. (E.g. particulate matter (describe composition), SO₂, CO, hydrogen sulfide, nitrogen oxides (as nitrogen dioxide), etc.)
- {5} Maximum allowable quantities at maximum allowable production rates and 8760 hours per year unless limited by federally enforceable permit conditions. See Section 1, Line 37. tn = tons (2,000 lb).
- {6} Specify how the quantity of emitted pollutant was determined: from actual measurement (specify equipment used) of emissions (preferred), process material balances, equipment manufacturer's information, EPA emission factor, or other source. Show the calculations used to obtain the emission rates in Package Element 4B (Emissions Calculations).
- {7} Specify the requirement(s) that is(are) applicable to this process, operation or emission unit. See Part 42 for list of applicable requirements. E.g. 20 NMAC 11.67.II.9; NSPS Subpart GG; 20 NMAC 11.41. If there is insufficient room on the form, please attach a clearly identified additional sheet.

SECTION 3 EMISSIONS FROM AIR POLLUTION CONTROL EQUIPMENT AND FROM UNCONTROLLED PROCESS EQUIPMENT
 (20 NMAC 11.42.II.1.1.D.)

(Use additional sheets if necessary)

Emission Unit Nos. {1}	CONTROL EQUIPMENT			AIR POLLUTANTS EMITTED {4}				CONTROL EFFICIENCY		APPLICABLE REQUIREMENTS {8}
	Unit No. {2}	Type {3}	Manufacturer and Model No.	Pollutant {5}	Quantity {6}			% by Weight	Method of Determination {7}	
					Actual	Units	Allowable			
						lb/hr				
						tn/yr				
						lb/hr				
						tn/yr				
						lb/hr				
						tn/yr				
						lb/hr				
						tn/yr				
						lb/hr				
						tn/yr				
						lb/hr				
						tn/yr				

Section 3: Emissions From Air Pollution Control Equipment and from Uncontrolled Process Equipment

All emissions to the atmosphere, either controlled or uncontrolled if no control exists, associated with the operation of this facility must be identified in this

section. This includes fugitive process emissions, and other fugitive or indirect emissions resulting from activities of this facility, e.g. fugitive dust from haul roads. [Insignificant activities are found in Package Element 9.]

Provide emissions rates from air pollution control equipment, waste abatement equipment, process control capture equipment, and from uncontrolled processes, operations or activities. Calculations made to determine the values shown on the form are to be shown and referenced in Package Element 4B (Emissions Calculations). These emissions include: pollutants for which the source is major; regulated air pollutants; and any hazardous or toxic air contaminants emitted as part of plant processes. Emissions from flares, sulfur recovery units, VOC afterburners, and wood waste burners must also be listed.

Sufficient information must be included for the department to evaluate, and verify, the operation and stated control efficiencies of the control equipment involved. Attach additional sheets as needed to list all control equipment. Include references to process flow sheets required in Package Element 4A and attach any equipment layout and assembly drawings as necessary to describe all air pollution control equipment.

Notes:

- {1} List the emission unit numbers that feed each individual piece of control equipment. If multiple process units (with individual numbers) discharge to one control equipment unit, list all emission unit numbers that feed that control equipment unit. For liquid tank and solid material storage, use the tank or storage unit number.
- {2} Corresponding to control equipment unit numbers from Package Element 4.
- {3} Baghouse, cyclone, electrostatic precipitator, enclosures, scrubber, VOC afterburners, etc.
- {4} Emissions after gases have passed through control equipment. Use one line for each pollutant emitted. Attach additional sheets if required.
- {5} SO₂, NO_x, particulate matter, etc.
- {6} "Actual" rates are based on actual production and hours of operation. "Allowable" values are based on maximum allowable production rates. If there is no control equipment, the values in the "Allowable" column are the same as the values in the "Quantity" column in Section 2. List quantities in both pounds per hour and tons per year. Yearly values are based on 8760 hours per year unless the applicant desires to restrict hours of operation as a permit condition. If the emission rate is limited by a federally enforceable applicable requirement, then provide the value of this rate.
- {7} Field test results, manufacturer's data, etc. See note {6} from Section 2, Air Pollutant Emission Rates.
- {8} Specify the requirement(s) that apply to this control equipment unit and process.

Section 4: Compliance Monitoring Devices and Equipment

Use this section to list all compliance monitoring devices and equipment used at the facility to verify emission rates and other permit terms and conditions. Use one line for each monitoring device and piece of equipment.

Notes:

- {1} List the unit number of the compliance monitoring device as shown in Package Element 4A (Process Flow Sheets).
- {2} State the type of the monitoring device. E.g. Ultra Violet Photometric Analyzer, NDIR Photometer, Opacity Meter, EPA Sampling Train (specify the sampling method number), etc.
- {3} 0- 1,000 ppm, 0 - 50 g/m³, 0 - 100% opacity, etc.
- {4} Provide the unit number(s) (from Package Element 4A -- Process Flow Sheets) of the emissions unit(s) being monitored by each device.
- {5} Describe the physical location of the monitoring device and the recording device. E.g. Monitor is located in ductwork 50' upstream from stack. Recorder is located in operating control room.

Section 5: Fuels and Fuel Usage

This section provides information on all the fuel usage for all process equipment at the facility. Flares and waste burners are not listed here unless supplemental fuel is used to sustain combustion. In that case, only the supplemental or auxiliary fuel data is given here.

A material balance for combustion within the plant is required to complete this Section and should be attached to this Section. Show calculations in Package Element 4B.

Only equipment that uses fuel is listed in this section.

Notes:

- {1} Corresponding to emissions, process, or operational unit numbers as shown in Package Element 4A (Process Flow Sheets).
- {2} State the type of equipment. E.g. Boiler, diesel engine, furnace, gas engine, gas turbine, oven, space heater, etc.
- {3} Provide the maximum nameplate rate and the normal rate, if these rates are different, e.g. million btu/hr, HP etc. If these rates have been adjusted for altitude, this should be noted on the form. Ask the Division's Engineering staff for derating procedures.
- {4} If auxiliary fuel or different fuel is used "on standby", the data for that fuel must also be provided.
- {5} E.g. Natural gas; LPG; No. 1, 2, 4, or 6 fuel oil; refinery gas; coal; wood; etc.
- {6} Use the following units depending on the fuel type: Million cubic feet of gas; gallons of fuel oil; pounds of LPG; etc. State what units you are using.
- {7} Use the following units depending on the fuel type: Btu/thousand ft³ for gas, Btu/lb for solid fuel, or Btu/gallon for liquid fuel.
- {8} State both average percentage by weight and maximum percentage by weight. Sulfur content is not required if sweet pipeline quality natural gas is used as the fuel. Specify in "fuel type" that sweet pipeline quality gas is used and state specification under "sulfur". Provide fuel supplier specifications for sulfur content.
- {9} State both average percentage by weight and maximum percentage by weight. Ash content is not required if sweet pipeline quality natural gas is used as the fuel.

SECTION 6A RAW MATERIALS PROCESSED
(20 NMAC 11.42.II.1.1.D.)

(Use additional sheets if necessary)

Unit No. {1}	Material {2a}	Composition {3}	Condition {4}	Quantity Used {5} (Specify Units)

SECTION 6B MATERIALS PRODUCED (DO NOT INCLUDE EMISSIONS AND WASTE PRODUCTS LISTED IN SECTIONS 2, 3, & 10)
 (20 NMAC 11.42.II.1.1.D.5.d.)

Unit No. {1}	Material {2a}	Composition {3}	Condition {4}	Production Rates {5} (Specify Units)

Sections 6A and 6B: Raw Materials Processed and Materials Produced

This section addresses any feedstocks or raw materials used in the plant process, and materials or products (not including solid or liquid waste products) that are generated. As an example, sour natural gas is the raw material and sweet pipeline quality gas and natural gas liquids are the products. This section quantifies a portion of the facility material balance. Some unit numbers will correspond to process equipment, as for example where a stream is "refined", such as sour gas to sweet gas, or rock crushing with rock aggregate feed and various products are produced in stages (crushers, screens).

Calculations made to determine the values shown on the form are to be shown and referenced in Package Element 4B (Emissions Calculations).

Notes: (These apply to both 6A and 6B)

- {1} Corresponding to emissions, process or operational unit numbers as shown in Package Element 4A (Process Flow Sheets).
- {2a} What is the raw material -- for example: crude oil, sour gas, raw ore.
- {2b} What is the finished product -- for example: gasoline, diesel fuel, sweet gas.
- {3} List each major component with weight percentages and chemical compositions (if known), or attach separate analysis sheet.
- {4} Provide typical particle size distribution for aggregates, pumice dust, etc. and average moisture content if known.
- {5} Barrels per day, thousands of standard cubic feet per day, tons per hour, etc. Reference process flow sheets required in Package Element 4A, including material balances.

SECTION 7 STACK PARAMETERS
 (20 NMAC 11.42.II.1.1.D.)

(Use additional sheets if necessary)

Stack Height ft. {3}	Inside Stack Exit Diameter ft {4}	EXIT GAS CONDITIONS {5}			SAMPLING PORTS		
		Temp. EF	Velocity ft/sec {6}	Moisture % by Vol	Number	Size	Location {7}

Section 7: Stack Parameters

This section is used to describe the release points of all emissions associated with the facility. This includes actual stacks as well as the release point information in cases where there is no stack, such as where fugitive releases occur.

This information is required for EPA's Aerometric Information Retrieval System database and also for air dispersion modeling that may be required for either this source or another source.

Notes:

- {1} Use stack numbers from Package Element 4A (Process Flow Sheets). If there is a release point with no stack, state the location of the release point.
- {2} If one stack serves multiple processes, operations, or emissions units, provide unit numbers for all emissions units discharging to this stack.
- {3} Height above ground of the stack exit or release point.
- {4} If stack is circular, give inside diameter at exit point. If stack is not circular, provide actual exit dimensions. If stack exit is not pointed up, give direction that stack points. State whether rain cap is used.
- {5} If conditions are not measured at actual stack exit, specify location at which measurements are made.
- {6} Show calculations in sufficient detail to allow permit engineer to verify actual velocity values. These calculations should be shown in Package Element 4B and clearly identified.
- {7} Provide the physical location(s) of the sampling ports. For example: 2 ports at 90 degrees, 25 ft. from top of stack.

Section 8A: Liquid Storage Tanks - Material Data

This section is used to describe any liquid materials that are stored at the plant and are potential sources of gaseous emissions. This includes raw feedstocks, and intermediate and final product storage.

If your plant has no tanks which store volatile organic compounds, or other toxic or hazardous materials, write "NA" on the top of the form.

This information is requested for the calculation and characterization of fugitive emissions. EPA's reference AP-42 Section 12 lists reference data for liquid storage tanks.

The emissions data for the tanks should be provided in Sections 2 and 3 of this application form.

Notes:

- {1} The tank numbers are to be assigned by the applicant. Use a unique tank number for each tank. These are the same numbers as are used in Package Element 4A (Process Flow Sheets) to identify each tank.
- {2} Give the trade name or commonly used name for the liquid stored in the tanks. E.g. Stoddard Solvent, fuel oil, etc.
- {3} Identify each major component (including sulfur) and give its weight percent. If space is insufficient, attach analysis sheet. The material name and tank number should be clearly identified on any attachments.

Section 8B: Liquid Storage Tanks - Tank Data

Notes:

- {1} Use tank number(s) from Section 8A.
- {2} Date (mo./yr.) tank was originally installed or constructed. If the tank was later modified or reconstructed, provide the date this work was completed and attach a separate description of the modifications or reconstruction.
- {3} If the tank is used to store more than one material, use a separate line for each material and provide all the requested data for each material.
- {4} Use the following abbreviations: Fixed roof - FX, Internal Floating Roof - IF, External Floating Roof - EF, Pressure - P.
- {5} Select the appropriate number and letter from the following list that describes the tank and seal type (e.g. "2b" indicates welded tank, liquid mounted resilient seal with weather shield):
NOTE: For pressure tanks, enter control pressure (psia).

WELDED TANK SEALS

- 1. Mechanical shoe 2. Liquid mounted resilient 3. Vapor mounted resilient
 - a. Primary only a. Primary only a. Primary only
 - b. Shoe mounted secondary b. Weather shield b. Weather shield
 - c. Rim mounted secondary c. Rim mounted secondary c. Rim mounted secondary

RIVETED TANK

- 4. Mechanical shoe seal
 - a. Primary only
 - b. Shoe mounted secondary
 - c. Rim mounted secondary
- {6} This applies to fixed roof tanks **only**. Give the average distance from liquid surface to tank roof. For all other tanks, write "N.A."
- {7} Use the following abbreviations: White - WH, Aluminum (specular) - AS, Aluminum (diffuse) - AD, Light Gray - LG, Medium Gray - MG, Black - BL, Other - OT.
- {8} Describe the condition of the paint on the tank as either: Good or Poor.
- {9} Enter throughput, in gallons/year, of each material that is stored in the tank.
- {10} Turnover = annual throughput (gal) / tank capacity (gal).

Section 9A: Solid Material Storage - Material Data

This section is used to describe any solid stored materials used in the plant process which are potential sources of particulate matter. This includes raw feedstocks, intermediate and final product storage. If there is no solid material storage at the plant, write "NA" at the top of the form.

Emissions data for solid material that is stored on the plant site should be provided in Sections 2 and 3.

Notes:

- {1} Individual storage unit numbers are assigned by the applicant in Package Element 4A (Process Flow Sheets). These same unit numbers are used in this Section and in Sections 2 and 3 to identify the storage units.
- {2} State which process, operation or emissions unit is served and whether transfer equipment is used. E.g. open feed conveyor.
- {3} Examples of storage type: silo, open pile, shed, enclosed building, enclosed weigh bin or surge bin.
- {4} Give the chemical composition of the material being stored. If space is insufficient, attach analysis sheet. The material name and storage unit number should be identified clearly in any attachments.

Section 9B: Solid Material Storage - Storage Data

This section is used to specify the amounts and methods of solid material transfer in the facility process or operation.

Notes:

- {1} Use the same storage unit numbers as in Section 9A.
- {2} Examples of transfer or transport method:
Incoming: how material is loaded into the storage unit, e.g. truck, rail car, front end loader, etc.

Outgoing: how material is moved from the storage area to the process area, e.g. closed pneumatic feed, closed gravity feed, open gravity feed, enclosed screw conveyor, front end loader, open or enclosed belt conveyor, truck.
- {3} State what kind of dust control methods are used in the storage or transfer of material. E.g. silo bin filters, telescoping stacker chutes, enclosures, dust pickup to baghouse, etc.
If the storage unit is equipped with a stack, provide the stack parameters in Section 7 (Stack Parameters).

SECTION 10 WASTE PRODUCT DISPOSAL (SOLID AND LIQUID WASTES THAT DO NOT RESULT IN AIR EMISSIONS)
 (20 NMAC 11.42.II.1.1.D.)

(Use additional sheets if necessary)

Equipment Unit No. {1}	WASTE MATERIAL		METHOD OF DISPOSAL {4}
	Type {2}	Amount {3}	
		/hr	
		/yr	
		/hr	
		/yr	
		/hr	
		/yr	
		/hr	
		/yr	
		/hr	
		/yr	
		/hr	
		/yr	
		/hr	
		/yr	
		/hr	
		/yr	

Section 10: Waste Product Disposal

Use this section to describe solid and liquid waste product disposal. Any waste product disposal that results in emissions of air pollutants, such as flares or wood waste burners, should be listed and characterized in Sections 2 and 3 of this application form.

This form is designed to complete the material and mass balances of the applicant's operation. It is not part of the part of the air emissions characterization.

Be aware that incineration of waste materials is regulated and 20 NMAC 11.68 or 11.69 may apply.

Notes:

- {1} Give the control equipment or process unit numbers from Sections 2 through 9 that produce solid or liquid waste products which are then disposed of.
- {2} For example: Waste paper, wood chips, rubbish, garbage, acids, oils, fly ash, tailings, sulfur, etc.
- {3} Provide the quantity of waste product generated in terms of pounds, tons, or gallons per hour and per year. Specify units used.
- {4} For example: Sanitary landfill, waste pickup, sewage treatment plant, etc.

SECTION 11 CERTIFICATION -- (20 NMAC 11.42.II.1.1.E.)

I, _____, hereby certify that the information and data submitted in this application package are as complete, true and accurate as possible, to the best of my personal knowledge and professional expertise and experience.

Signed this _____ day of _____, 19 _____, upon my oath of affirmation, before a notary of the State of _____

SIGNATURE (Responsible Official)

DATE

PRINTED NAME

TITLE

Subscribed and sworn to before me on this _____ day of _____, 19 _____.

My authorization as a Notary of the State of _____ expires on the _____ day of _____, 19 _____.

NOTARY'S SIGNATURE

DATE

NOTARY'S PRINTED NAME