INDEX OF OPERATING PERMIT APPLICATION FORMS

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Operating Permit Application
Colorado Department of Public Health and Environment
Air Pollution Control Division

FACILITY IDENTIFICATION

FORM 2000-100
Rev 06-95

SEE INSTRUCTIONS ON REVERSE SIDE

1.	Facility name and mailing address	Name	
		Street or Route	
		City, State, Zip Code	
2.	Facility location (No P.O. Box)	Street Address	
		City,County, Zip Code	
3.	Parent corporation	Name	
		Street or Route	
		City, State, Zip Code	
		Country (if not U.S.)	
4.	Responsible official	Name	
		Title	
		Telephone	
5.	Permit contact person (If Different than 4)	Name	
		Title	
		Telephone	

6. Facility SIC code:

7. Facility identification code: CO _ _ _ _ _ _ _

8. Federal Tax I. D. Number: _ _ _ _ _ _ _ _ _

9. Primary activity of the operating establishment:

10. Type of operating permit New Modified Renewal

11. Is the facility located in a "nonattainment" area: Yes No

If "Yes", check the designated "non-attainment" pollutant(s):

Carbon Monoxide Ozone PM10 Other (specify)

12. List all (Federal and State) air pollution permits (including grandfathered units), plan approvals and exemptions issued to this facility. List the number, date and what unit/process is covered by each permit. For a Modified Operating Permit, do not complete this item.

FACILITY IDENTIFICATION -- Form 2000-100
AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. Use of this form is required for all operating permit applications. The Division will not consider or act upon your application unless each form used has been entirely completed. Use "NA" where necessary to identify an information request that does not apply.

One form should be included with each application.

Item 1 Provide full business name and address of corporation, company, association, society, firm, partnership, individual or political subdivision of the state submitting the application.

Item 2 Street address where the air pollution sources are or will be located. For remote locations, land plat descriptions (Township, Range, Section, Subsection location) are acceptable.

Item 3 If wholly or partly owned by another entity, identify that entity.

Item 4 The responsible official is a person legally responsible for the operation of the permitted air pollution sources. For a corporation, this person must be the president, vice-president, secretary or treasurer, or other person with a similar level of responsibility in the company.

ior to filing the application, if you want the Division to approve your choice of responsible official you may send a letter to the Division describing that rson's authority in the company and requesting the Division's approval.

Item 5 Individual to contact during the permitting process for additional information concerning the air pollution sources.

Item 6 The primary Standard Industrial Classification (SIC) code for the facility where the source(s) are located.

Item 7 Provide the facility identification (FID) code. The Division has assigned a unique code to your facility. The code begins with "CO" (Colorado) and has 7 digits.

Item 8 Provide the Facility Federal Tax Number. This is a nine-digit number.

Item 9 Provide a short statement about your facility's activities such as "lead-acid battery manufacture" or "sulfite paper mill."

Item 10 Indicate the type of permit application being submitted. An applicant may at any time request an operating permit that is otherwise not required.

Item 11 Indicate whether the facility is located in a nonattainment areaeven if your facility does not emit the pollutant. Please refer to the instruction booklet and Appendix G of the instruction book. If the area is attainment for all pollutants, enter "Attainment for all Pollutants".

Item 12 Identify all facility air pollution permits, plan approvals (fugitive dust), and exemptions issued by U.S. EPA or Colorado APCD that are still in effect. Include grandfathered emission units. Please do not list old permits, exemptions, etc. that have expired or been superseded by more recent approvals. List the permit number, date, and unit or operation covered by the permit.

Example:	88DE189	May 15, 1989	Incinerator
	Fugitive Dust	Sept 1, 1992	Gravel Pit
	Grandfathered	Feb 2, 1972	Smith Boiler

FACILITY PLOT PLAN

Facility Name:_____ Facility Identification Code: CO _ _ _ _ _ _ _

The operating permit must be prepared and submitted on forms supplied by the Division. Use of this form is required for all operating permit applications. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

In order for a comprehensive air quality analysis to be accomplished, a facility plot plan MUST be included with the permit application. Drawings provided must fit on generic paper sizes of 8 1/2" X 11", 8 1/2" X 14" or 11" X 15", as appropriate to display the information being provided. Include the facility name and facility identification code on all sheets. For facilities with large areas, sketches of individual buildings, on separate drawings, may be needed to allow easy identification of stacks or vents. Insignificant activities do not need to be shown.

1. A plant layout (plan view) including all buildings occupied by or located on the site of the facility and any outdoor process layout.

2. The maximum height of each building (excluding stack height).

3. The location and coded designation of each stack. Please ensure these designations correspond to the appropriate stacks listed on the other permit forms in this application. The drawings need not be to scale if pertinent dimensions are annotated, including positional distances of structures, outdoor processes and free standing stacks to each other and the property boundaries.

4. The location of property boundary lines.

5. Identify direction "North" on all submittals.

Are there any outdoor storage piles on the facility site with air pollution emissions that need to be reported? Yes No

If "Yes", what is the material in the storage pile(s)?

Are there any unpaved roads or unpaved parking lots on the facility site? Yes No

List the name(s) of any neighboring state(s) within a 50 mile radius of your facility:

FACILITY PLOT PLAN -- Form 2000-101

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. Use of this form is required for all operating permits. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

To facilitate the Division's analysis, attach a sketch of the facility layout. The sketch will be used to identify the location of the various emissions at the facility. The sketch should show the positional relationships of any buildings, outdoor processes and the property boundaries. The sketch does not need to be exactly to scale if pertinent dimensions are annotated. For a facility with a large area, a single drawing of the entire facility may not provide much detail. Submit one drawing of the entire site and additional separate drawings, as necessary, to show portions of the facility grounds, buildings or process stacks and vents in more readable detail. DO NOT SUBMIT BLUEPRINT SIZE DRAWINGS.

SOURCE AND SITE DESCRIPTIONS

Facility Name:_____ Facility Identification Code: CO _ _ _ _ _ _ _

The operating permit must be prepared and submitted on forms supplied by the Division. Use of this form is required for all operating permit applications. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

1. Briefly describe the existing Unit(s) to be permitted. Attach copies of Form 2000-700 as needed to provide the information. Process flowsheets or line diagrams showing major features and locations of air pollution control equipment can be most effective in showing the location and relationships of the units. Providing mass flowrates/balances at critical points on the diagrams is very helpful when developing an understanding of the processes involved.

2. Site Location and Description (Include instructions needed to drive to remote sites not identifed by street addresses)

3. Safety Equipment

Identify safety equipment required for performing an inspection of the facility:

Protection
- Hard Hat
- Safety shoes
- Hearing Protection
- Gloves

Other, specify _____
_____
_____
_____
_____

SOURCE DESCRIPTION - APENS

Facility Name:_____ Facility Identification Code: CO _ _ _ _ _ _ _

NOTE: Each new or updated Air Pollutant Emission Notice (APEN) submitted must be accompanied by payment of $100 per APEN.

1. For each emission unit enclose a copy of the most current complete Air Pollutant Emission Notice (APEN) on file with the Division. If the most current APEN was not completely and correctly filled out, a revised APEN is required. List an APEN number, date, and a brief description of the unit/process covered by the APEN. (No filing fees are needed for these copies)

2. No APEN exists for an emission unit. List the new APEN and the appropriate descriptive information here. Submit the APEN with a construction permit application.

New APEN and permit application submitted with this application

OR

under separate cover to Construction Permits Section

3. A revised APEN was prepared and enclosed for an emission unit. List the APEN and the appropriate descriptive information here. A revised APEN is needed where a significant increase in emissions has occurred, or is planned; or a major modification of the unit has occurred or is planned; or the existing information needs correction or completion. A construction permit application may need to be submitted.

Revised APEN submitted as part of this application: Yes No Filing Fee Enclosed

New permit application enclosed: Yes No

Permit modification application enclosed: Yes No

NOTE: Use additional copies of Form 2000-700 as needed to provide the above information.

SOURCE DESCRIPTION - APENS - Form 2000-102A
AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION

The operating permit must be prepared and submitted on forms supplied by the Division. Use of this form is required for all operating permit applications. The Division will not consider or act upon your application unless each form used has been entirely completed. Use "NA" where necessary to identify an information request that does not apply.

Item 1. For each emission unit, a copy of the most current Air Pollutant Emission Notice (APEN) on file with the Division must be submitted. If the most current APEN submitted was not completely or correctly filled out, a revised APEN is needed. For each APEN, enter a brief description of the emission unit, the APEN date and a reference number for the APEN. The reference number may already exist on the APEN, can be the permit number related to the APEN, or you may assign a reference number of your choice. This number is to allow the Division to easily identify the proper APEN for the emission unit. No filing fees are needed. See the instruction manual for an example of the information requested.

Example: APEN #90XZ201 May 5, 1982 Hog Fuel Boiler
Detailed information shown here (see manual)

APEN #2 April 9,1983 Fines Boiler
Detailed information listed here (see manual)

Item 2. If no APEN can be found for an emission unit, prepare a new APEN and include it with the application. List the same information as shown for Item 1. Assign a reference number to the APEN.

Item 3. Where a significant increase in emissions for a unit has occurred or is planned; or the unit has been modified or the modification is planned; or the existing information is not correct or complete, a revised APEN is needed. List the same information as shown for Item 1. Assign a reference number to the APEN.

SOURCE DESCRIPTION - INSIGNIFICANT ACTIVITIES

Facility Name:_____ Facility Identification Code: CO _ _ _ _ _ _ _

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application.The Division will not consider or act upon your application unless each form used has been entirely completed.

Certain categories of sources and activities are considered to be insignificant contributors to air pollution and are listed below. A source solely comprised of one or more of these activities is not required to obtain an operating permit pursuant to Regulation 3, unless the source's emissions trigger the major source threshold as defined in Part A, Section I.B.58 of Regulation 3. For the facility, mark all insignificant existing or proposed air pollution emission units, operations, and activities listed below.

(a) noncommercial (in-house) experimental and analytical laboratory equipment which is bench scale in nature including quality control/quality assurance laboratories, process support laboratories, environmental laboratories supporting a manufacturing or industrial facility, and research and development laboratories.

(b) research and development activities which are of a small pilot scale and which process less than 10,000 pounds of test material per year.

(c) small pilot scale research and development projects less than six months in duration with controlled actual emissions less than 500 pounds of any criteria pollutant or 10 pounds of any non-criteria reportable pollutant.

Disturbance of surface areas for purposes of land development, which do not exceed 25 contiguous acres and which do not exceed six months in duration. (This does not include mining operations or disturbance of contaminated soil).

Each individual piece of fuel burning equipment, other than smokehouse generators and internal combustion engines, which uses gaseous fuel, and which has a design rate less than or equal to 5 million Btu per hour. (See definition of fuel burning equipment, Common Provisions Regulation).

Petroleum industry flares, not associated with refineries, combusting natural gas containing no H2S except in trace (less than 500 ppmw) amounts, approved by the Colorado Oil and Gas Conservation Commission and having uncontrolled emissions of any pollutant of less than five tons per year.

Chemical storage tanks or containers that hold less than 500 gallons, and which have a daily throughput less than 25 gallons.

Landscaping and site housekeeping devices equal to or less than 10 H.P. in size (lawnmowers, trimmers, snow blowers, etc.).

Crude oil or condensate loading truck equipment at crude oil production sites where the loading rate does not exceed 10,000 gallons per day averaged over any 30 day period.

Chemical storage areas where chemicals are stored in closed containers, and where total storage capacity does not exceed 5000 gallons. This exemption applies solely to storage of such chemicals. This exemption does not apply to transfer of chemicals from, to, or between such containers.

Oil production wastewater (produced water tanks), containing less than 1% by volume crude oil, except for commercial facilities which accept oil production wastewater for processing.

(Continues on other side)

Storage of butane, propane, or liquified petroleum gas in a vessel with a capacity of less than 60,000 gallons, provided the requirements of Regulation No. 7, Section IV are met, where applicable.

Storage tanks of capacity < 40,000 gallons of lubricating oils.

Venting of compressed natural gas, butane or propane gas cylinders, with a capacity of 1 gallon or less.

Fuel storage and dispensing equipment in ozone attainment areas operated solely for company-owned vehicles where the daily fuel throughput is no more than 400 gallons per day, averaged over a 30 day period.

Crude oil or condensate storage tanks with a capacity of 40,000 gallons or less.

Storage tanks meeting all of the following criteria:

(i) annual throughput is less than 400,000 gallons; and

(ii) the liquid stored is one of the following:

(A) diesel fuels 1-D, 2-D, or 4-D;

(B) fuel oils #1 through #6;

(C) gas turbine fuels 1-GT through 4-GT;

(D) an oil/water mixture with a vapor pressure lower than that of diesel fuel (Reid vapor pressure of .025 PSIA).

Each individual piece of fuel burning equipment which uses gaseous fuel, and which has a design rate less than or equal to 10 million Btu per hour, and which is used solely for heating buildings for personal comfort.

Stationary Internal Combustion Engines which:

(i) power portable drilling rigs; or

(ii) are emergency power generators which operate no more than 250 hours per year; or

(iii) have actual emissions less than five tons per year or rated horsepower of less than 50.

Surface mining activities which mine 70,000 tons or fewer of product material per year. A fugitive dust control plan is required for such sources. Crushers, screens and other processing equipment activities are not included in this exemption.

Air pollution emission units, operations or activities with emissions less than the appropriate de minimis reporting level.

NOTE: Material Data Safety Sheets (MSDS) do not have to be submitted for any insignificant activities.

USE FORM 2000-700 TO PROVIDE AN ITEMIZED LIST OF THE SOURCES OR ACTIVITIES BEING IDENTIFIED AS INSIGNIFICANT ACTIVITIES. DO NOT ITEMIZE INDIVIDUAL PIECES OF LANDSCAPING EQUIPMENT. THE LIST IS NEEDED TO ACCURATELY ACCOUNT FOR ALL ACTIVITIES AT THE FACILITY

STACK IDENTIFICATION

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	3a. Construction Permit Number:

4. Exhausting Unit(s), use Unit identification code from appropriate Form(s) 2000-300, 301, 302, 303, 304, 305, 306, 307

2000-300	2000-301	2000-302	2000-303
2000-304	2000-305	2000-306	2000-307

5. Stack identified on the plot plan required on Form 2000-101

6. Indicate by checking:
This stack has an actual exhaust point. The parameters are entered in Items 7-13.
This stack serves to identify fugitive emissions. Skip items 7-13. Go to next form.
When stack height Good Engineering Practice (GEP) exceeds 65 meters (Colorado Air Quality Reg 3.A.VIII.D) data entry is required for Item 7.

7. Discharge height above ground level: ____ (feet)

8. Inside dimensions at outlet (check one and complete):

Circular ____ (feet) Rectangular ____ length (feet) ____ width (feet)

9. Exhaust flow rate: Normal _____ (ACFM) Maximum _____ (ACFM)

Velocity _____ (FPS) Calculated Stack Test

10. Exhaust gas temperature (normal): ____ (°F)

11. Does process modify ambient air moisture content? Yes No

If "Yes", exhaust gas moisture content: Normal____ percent Maximum_____ percent

12. Exhaust gas discharge direction: Up Down Horizontal

13. Is this stack equipped with a rainhat or any obstruction to the free flow of the exhaust gases from the stack? Yes No

*****Complete the appropriate Air Permit Application Forms(s) 2000-300, 301, 302, 303, 304, 305, 306, or 307 for each Unit exhausting through this stack. *****

STACK IDENTIFICATION -- Form 2000-200
AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. Use of this form is required for all operating permits. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

One form must be completed for each stack (or release point such as roof vent, wall vent, tank vent, etc.).

Item 1 Provide the facility name.

Item 2 Provide the facility identification (FID) number.

Item 3 Assign a four-character identification code for this stack (e.g., S001). The number portion of the code should be on the computer printout provided.

Item 3a If the emission unit has an existing construction permit from the Division, list the permit number here.

Item 4 List the identification(s) for the emissions unit(s) that will vent through this stack. Use the existing identification number(s) from the Air Emissions Inventory. If the numbers are not preprinted, please refer to the computer printout provided with the forms. Use this number on the appropriate forms 2000-300, -301, -302, -303, -304, -305, or
-307 for the unit(s). Examples: Boiler No. 1 can be "B001," Process No. 3 can be "P003" (see instruction booklet for details).

Item 5 Verify that this stack or release point is identified on the required plot plan.

Item 6 An "actual exhaust point" is a real stack that may be described by the physical parameters listed in Items 7 through 13 of this form. "Fugitive emissions" means emissions from any emissions point within a facility (the buildings plus the grounds) other than a flue or stack. If you check "this stack serves to identify fugitive emissions," you do not need to complete the rest of the form.

Item 8 Check the appropriate geometric shape of the stack and complete the related dimension information.

Item 9 Provide the normal exhaust flow rate in units of actual cubic feet per minute (ACFM) and the maximum exhaust flow rate expected (in ACFM). The velocity is either computed from the stack parameters or determined in a stack test.

Item 11 This item is for combustion sources or other stacks where the moisture content is needed in determining the emissions. For ambient air discharges or where moisture is not a consideration in the emissions, check "No".

Item 12 Check appropriate discharge direction. If the direction of discharge is at an angle, check the nearest direction.

Operating Permit Application
Colorado Department of Public Health and Environment
Air Pollution Control Division

BOILER OR FURNACE OPERATION

FORM 2000-300
09-94

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	4. Unit code:

5. Unit description:

6. Seasonal Fuel Usage(%)	Dec-Feb:	Mar-May:	Jun-Aug:	Sep-Nov:

7. Normal Operation of Unit	Hours/Day:	Days/Week:	Hours/Year:	8. Space Heat(%)

9. Indicate the boiler/furnace control technology status. Uncontrolled Controlled

If the boiler/furnace is controlled, enter the control device number(s) from the appropriate forms:

2000-400 ____ 2000-401 ____ 2000-402 ____ 2000-403 ____
2000-404 ____ 2000-405 ____ 2000-406 ____ 2000-407

10. Furnace type:	11. Max continuous rating(mmBTU/hr):
12. Manufacturer:	13. Model & Serial #:

14. Date first placed in service: Date of last modification:

15. Fuels and firing conditions:

	Primary fuel	Backup fuel #1	Backup fuel #2
Fuel name			
Higher heating value (with units)			
Maximum sulfur content (Wt.%)			
Maximum ash content (Wt.%)			
Excess Combustion Air OR $\%O_2$ (Circle choice)			
Moisture content (as fired) (%)			
Maximum hourly fuel usage (units/hr.)			
Actual annual fuel usage for 19			

***** For this emissions unit, identify the method of compliance demonstration by completing Form 2000-500, ******
DESCRIPTION OF METHODS USED FOR DETERMINING COMPLIANCE. Attach Form 2000-500 and its attachment(s) to this form.

***** Please complete the Air Pollution Control Permit Application Forms 2000-600 and 2000-601 for this Unit. *****

BOILER OR FURNACE OPERATION -- Form 2000-300
AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each boiler or furnace with regulated emissions.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code for the stack exhausting this boiler or furnace. Use the same code used on form 2000-200.

Item 4 Assign an identification code to this boiler or furnace (e.g., B021).

Item 5 Provide a brief description of this unit. Identify any special features designed to provide reduced emissions (e.g. low NOX burners, steam injection, etc.) Use Form 2000-700 as needed for additional information.

Item 6 Report the seasonal fuel usage by quarter. Total usage must equal 100 %.

Item 7 Report the normal operating hours for the boiler or furnace, NOT for the general plant.

Item 8 The space heating is the percent of the annual fuel use by this combustion unit attributed to space heating needs.

Item 9 If this boiler or furnace is controlled, assign a control device code (e.g., C30) to the air pollution control device associated with it. Use this code on the appropriate form(s) 2000-400 through -407.
Enter the code after the form number here also.

Item 10 State the type of furnace in terms of the firing configuration (e.g., cyclone, spreader stoker, fluidized bed, etc.).

Item 11 The maximum continuous rating of the furnace refers to the furnace's ability to sustain a maximum heat input for three hours. Provide the rating (in million BTU per hour).

Item 12 Provide the boiler or furnace manufacturer. If it is unknown, write "unknown".

Item 13 Provide the boiler or furnace model number and serial number. If it is unknown, write "unknown".

Item 14 Record the date the unit was first placed in service and the date of the last modification of the emissions unit that might have affected the air pollutant emissions. Provide the month and day if possible. Write in "00" if unknown (e.g., 00/00/56).

Item 15 Complete the table for all fuels presently used with this boiler or furnace, plus all fuels desired for use in alternative operating scenarios <u>that don't require physical changes to the boiler to accommodate the fuels</u>. In other words, identify those fuels presently fired in the boiler (primary and backup fuels) as well as fuels of future interest that could be burned without modifying the boiler. If a facility presently operates a gas-only boiler and wants the capability to burn heavy oil in the future, the facility will need to obtain a construction permit to make the modification because a physical change to the boiler - adding a fuel oil burner - would be required to accommodate the heavy oil. Please attach Form 2000-700 if needed to explain alternative scenarios for the unit. The maximum sulfur and ash percentage is referring to the maximum of the normal range for the fuel supply being used.

Note: For "excess combustion air", provide the percent oxygen (O_2) in the flue gas, <u>if known</u>, typically observed during the firing of each fuel listed in the table. If flue gas O_2 is <u>not</u> known, provide the furnace excess air as the percent above stoichiometric (i.e., 20 percent excess air is equivalent to 120 percent theoretical air, where "theoretical air" means the amount of combustion air exactly sufficient to completely combust the fuel in perfect (i.e., theoretical) combustion conditions. For natural gas combustion, 5 - 10 percent excess air is typical, and for stoker coal combustion, 30 - 50 percent excess air is a typical range. Circle which value is being reported.

Operating Permit Application
Colorado Department of Public Health and Environment
Air Pollution Control Division

STORAGE TANKS

FORM 2000-301

09-94

SEE ATTACHED SHEET FOR INSTRUCTIONS

1. Facility Name:_____ 2. Facility Identification Code: CO _ _ _ _ _ _ _

3.Storage Tank (Unit) Code 4. Storage Tank Capacity:_____ gallons

5. Date First Placed in Service or Last Modification

6. Control Device Number (use number from appropriate Form(s) 400, 401, 402, 403, 404, 405, 406 or 407):

7. Underground Tank: Yes No If "Yes", skip items 8,9,12,13,14,15,20,22, and page 3.

8a. Circular Tank Height ____ft Tank Diameter ____ft
8b. Rectangular Tank Height ____ft Tank Length ____ft Tank Width ____ft
8c. Spherical Tank Diameter ____ft

9. Tank Paint: White Grey/Blue Aluminum Dark Color No paint Other_____ specify
10.Is this tank equipped with a submerged fill pipe? Yes No

11.Complete this table for the tank vent

Type of Vent Control	Number	Pressure Setting PSIA	Vacuum Setting PSIA	Discharge to:		
				Atmosphere	Vapor Recovery	Flare
Combination P/V						
Pressure						
Vacuum						
None	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX			

12.Type of Storage Tank (check all that apply)

Open Top Tank Fixed Roof Fixed Roof w/Internal Floating Roof
Pressurized Tank External Floating Roof Variable Vapor Space

Insulated Internally heated Other (specify)_____

13.For all Fixed Roof Tanks:

a.Tank Configuration (check one): __ Vertical (upright cylinder) ____ Horizontal____Rectangular
b.Tank Roof Type (check one): __ Cone Roof - Indicate tank roof height _____(feet)

(required if vertical was selected) __ Dome Roof - Indicate tank roof height _____(feet)
- Indicate tank shell radius _____(feet)

_____14.Floating Roof Tanks (both internal and external) - Shell Condition (check one): Light Rust Dense Rust

Gunite Lined

15.For Variable Vapor Space Tanks:

Volume Expansion Capacity _____ (gallons)

16.Complete the following table for materials to be stored in this tank:

Material Stored	Maximum Throughput (gal/yr)	Annual Throughput (gal/yr) 19	Material Molecular Weight (lb/lb-mole)	Material Vapor Pressure (psia)	Material Liquid Density (lb/gal)

17. Maximum Liquid Loading Rate of Tank: _____ (gallons/hr)

18. Can this tank be loaded at the same time other tanks, containing the same fluid, are loaded? Yes No

If yes, indicate which other tanks can be loaded at the same time:_____

19. Describe the operations this tank will serve:

20. Average Outage (Average distance from top of tank shell to liquid Surface): _____ft

21. Tank Turnovers per year: _____

22. Emissions calculated:

Manually EPA TANKS2 software

Were EPA TANKS2 software default values used: Yes No

If TANKS default values not used, on the next page identify actual values used in the software program.

Facility Name:_____ Facility Identification Code: CO _ _ _ _ _ _ _

Storage Tank Unit Code:

23.For External Floating Roof Tanks:
a.Tank Construction (check one): __ Welded Tank __ Riveted Tank
b.Average Wind Speed at Tank Site: _____(mph)
c.Rim Seal System Description (check one):
__ Vapor Mounted Primary __ Liquid Mounted Primary __ Shoe Mounted Primary
__ Vapor Primary, Rim Secondary __ Liquid Primary, Rim Secondary __ Shoe Primary, Rim Secondary
__ Vapor Primary w/Weather Shield __ Liquid Primary w/Weather Shield __ Shoe Primary, Shoe Secondary

d.Roof Type (check one): __ Pontoon Roof __ Double Deck Roof

e.Roof Fitting Types (indicate the number of each type): Access Hatch (24" diameter well) Unslotted guide-pole well Gauge-float well (20" diameter) ____ Bolted cover, gasketed (8" diameter unslotted pole, 21" diameter well) ____ Unbolted cover,ungasketed ____ Unbolted cover, ungasketed ____ Ungasketed sliding cover ____ Unbolted cover, gasketed ____ Unbolted cover, gasketed ____ Gasketed sliding cover ____ Bolted cover, gasketed

Gauge-Hatch/sample well (8" diameter) Vacuum Breaker (10" diameter well) Roof Drain (3-inch diameter) ____ Weighted mechanical actuation, gasketed ____ Weighted mechanical actuation, gasketed ____ 90% closed ____ Open ____ Weighted mechanical actuation, ____ Weighted mechanical actuation, ungasketed ungasketed

Slotted guide-pole/sample well (8" diameter diameter well) Roof leg (3" diameter) Roof leg(2-1/2" diameter) diameter slotted pole, 21" ____ Adjustable, pontoon area ____ Adjustable, pontoon area ____ Ungasketed sliding cover, without float ____ Adjustable, center area ____ Adjustable, center area ____ Ungasketed sliding cover, with float ____ Adjustable, double-deck roofs ____ Adjustable, double deck roofs ____ Gasketed sliding cover, without float ____ Fixed ____ Fixed ____ Gasketed sliding cover, with float

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24.For Internal Floating Roof Tanks: a. Rim Seal System Description (check one): __ Vapor Mounted Primary __ Vapor Mounted Primary plus Secondary Seal __ Liquid Mounted Primary __ Liquid Mounted Primary plus Secondary Seal

b.Number of Columns:_____ c.Effective Column Diameter: _____ (feet)

d.Deck Type (check one): __ Welded __ Bolted e.Total Deck Seam Length: _____ (feet)

f.Deck Area: _____ (square feet)

g.Deck Fitting Types (indicate the number of each type):

Access Hatch (24" diameter)
____ Bolted cover, gasketed
____ Unbolted cover, gasketed
____ Unbolted cover, ungasketed

Automatic gauge float well
____ Bolted cover, gasketed
____ Unbolted cover, gasketed
____ Unbolted cover, ungasketed

Ladder Well (36" diameter)
____ Sliding cover, gasketed
____ Sliding cover, ungasketed

Column Well (24" diameter)
____ Builtup column-sliding cover, gasketed
____ Builtup column-sliding cover, ungasketed
____ Pipe column-flexible fabric sleeve seal
____ Pipe column-sliding cover, gasketed
____ Pipe column-sliding cover, ungasketed

Sample pipe or well (24" diameter)
____ Slotted pipe-sliding cover, gasketed
____ Slotted pipe-sliding cover, ungasketed
____ Sample well-slit fabric seal 10% open area
____ Stub drain (1" diameter)

Roof leg or hanger well
____ Adjustable
____ Fixed

Vacuum breaker (10" diameter)
____ Weighted mechanical actuation, gasketed
____ Weighted mechanical actuation, ungasketed

STORAGE TANKS -- Form 2000-301 Page 1

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each regulated storage tank.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Assign an identification code to this storage tank (e.g., T21).

Item 4 Enter the storage tank design capacity (in gallons).

Item 5 Record the date the tank was first placed in service or the date of the last modification of the tank. Provide the month and day if ɔssible. Write in "00" if unknown (e.g., 00/00/56).

Item 6 If the storage tank emissions are controlled, assign a control device number (e.g., C30) to the air pollution control device associated ith the storage tank. Use this number on the appropriate form(s) 2000-400 through -407.

Item 7 This refers to the tank only. Much of this form does not apply to underground storage tanks. If underground tank, skip items 8, 9, 12, 3, 14, 15, 16, 21 and page 3 entirely.

Item 8 Provide the tank dimensions (in feet), as appropriate for the shape.

Item 9 Check the appropriate space. If you select "other," enter the color.

Item 10 A submerged fill pipe is any pipe with a discharge opening entirely submerged when the liquid level is six inches (15.2 centimeters) ɔove the tank bottom.

Item 11 The last line of the table refers to a vent not equipped with any control.

Item 12 Check the appropriate tank type. See instruction booklet for details.

Item 13 Answer only if you have a fixed roof. Check the appropriate spaces and provide information. To calculate the tank roof height of a one roof tank, use the following equation. If you don't know the slope, use the standard value of 0.0625 ft/ft.

ank roof height (in feet) = slope of cone roof (in ft/ft) x tank shell radius (in feet)

o calculate the tank roof height of a dome roof tank, use the following equation: $H_R = R_R - (R_R^2 - R_S^2)^{0.5}$

/here: H_R = the tank roof height (in feet), R_R = the tank dome roof radius (in feet), and R_S = the tank shell radius (in feet).

Item 14 Answer only if you have an internal or external floating roof tank. Check the shell condition.

Item 15 Answer only if you have a variable vapor space tank. Indicate the volume expansion capacity of the variable vapor space achieved y roof lifting or diaphragm flexing.

STORAGE TANKS -- Form 2000-301 Page 2
AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

Item 16 Complete this table for all materials stored in this tank. Vapor pressures should be given for the tank conditions given. Do not supply eid vapor pressures.

Item 17 Indicate the maximum gallons of liquid that can be fed to the tank in one hour. If the tank is being loaded from tank trucks or railcars, nd more than one truck or railcar can be unloaded in one hour, take into account the time it takes to unhook one truck or railcar and hook up nother.

Item 18 Indicate whether other tanks can be loaded at the same time, and if so, which ones.

Item 19 Describe the operations that this tank will serve. Also indicate here if this tank will serve operations at a bulk terminal which receives asoline from refineries, a bulk gasoline plant which receives gasoline from bulk gasoline terminals for subsequent distribution to dispensing acilities, or a pharmaceutical manufacturing facility.

Item 22 Mark whether the emissions are computer calculated using EPA TANKS2 software or manually calculated using AP-42 or other eference source values. EPA TANKS is a specialized computer program for calculating the emissions from storage tanks. A number of default alues can be utilized by the program. When the default values are not used, the values selected must be reported. Attach copies of manual alculations to this form.

Item 23 Answer only if you have an external floating roof tank.

Check the appropriate tank construction.

b. List the average wind speed at the tank site. If you don't know the average wind speed, choose the wind speed for the city located closest to the tank site.

Check the appropriate rim seal type.

Check the appropriate roof type.

Indicate the total number of each appropriate roof fitting type in the space provided.

Item 24 Answer only if you have an internal floating roof tank.

Check the appropriate rim seal type.

Indicate the number of fixed roof support columns. Enter "0" if the fixed roof is self supported.

Indicate the effective column diameter (in feet). If you have a 9-inch by 7-inch built-up column, enter 1.1 feet. If you have an 8-inch diameter pipe column, enter 0.7 feet. If you have a dimension other than these standards, use the equation [column perimeter (in feet)/3.14]. If you don't know the dimensions, use 1.0 feet.

Check the appropriate deck type.

Indicate the total deck seam length.

Indicate the deck area.

Indicate the total number of each appropriate deck fitting type in the space provided.

Operating Permit Application
Colorado Department of Public Health and Environment
Air Pollution Control Division

INTERNAL COMBUSTION ENGINE OPERATION

FORM 2000-302
Rev 06-95

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	4. Engine (Unit) code:

4a. Date first placed in service: Date last modified:

5. Engine use:

6. Engine Features:

2-Cycle 4-Cycle Spark-ignition Diesel

Standard rich burn — Standard lean burn

Air/fuel ratio controller — Turbocharger

Low-NOx design — Other(Describe):

7. Emission controls: No Yes- Attach control device form

Check all of the following that apply:

Non-Selective catalytic reduction — Three-way catalyst

Selective catalytic reduction — Ammonia injected

Oxidation catalyst — Other:

8. Manufacturer:	9. Model No: S/N:
10. Max Fuel Design Rate: mmBTU/hr	11. Horsepower Max Design: Site:
12. Heat Rate: BTU/HP-hr	13. Operating Temp: Min. Max. °F

14. Fuels:	Primary Fuel	Backup Fuel #1
Fuel Type:		
Heating Value BTU/SCF		
Sulfur Content (Wt.%)		
Ash Content, (Wt.%)		
Moisture Content (%)		
Maximum Hourly Consumption (Ft^3,gal)		
Maximum Yearly Consumption (Ft^3,gal)		

NOTE: Data entry below is NOT OPTIONAL if parametric monitoring is used for compliance demonstration

15. Operational Parameters	Low	High	REMARKS
Ignition Timing (degrees)			
Speed (RPM)			
Intake Air Temp. (°F)			
Air and Fuel Manifold Pressure			
Exhaust Temperature (°F)			
Exhaust Oxygen (%)			
Waste Gate Position			
Fuel Regulator Setting			

***** Identify, the method of compliance demonstration by completing Form 2000-500, *****
DESCRIPTION OF METHODS USED FOR DETERMINING COMPLIANCE.
Attach Form 2000-500 to this form.

***** Please complete the Air Pollution Control Permit Application Forms 2000-600 and 2000-601 for this Unit. *****

INTERNAL COMBUSTION ENGINE OPERATION -- Form 2000-302
AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: Use of this form is required by the Division for any air pollution control permit application filed pursuant to Regulation No. 3, Part C, Operating Permits. The Division will not consider or act upon your application unless each form has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each internal combustion engine.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Indicate the stack identification code, for the engine exhaust, used on Form 2000-200 (Stack Identification).

Item 4 Assign an identification code to this engine (e.g. E01). Use this code on other forms related to this engine.

Item 4a Record the date first placed in service and the last date of any modification that would affect air pollutant emissions. Provide the month and year if possible. If unknown write "00" (e.g., 00/00/56). If this is a new source, indicate the proposed start date.

Item 5 What is the engine connected with - Compressor,Generator,Pump, etc.

Item 6 Check the engine features. Standard rich/lean burn is a stoichiometric engine.

Item 7 Check the emission control features as they apply.

Item 8 Provide the engine manufacturer. If it is unknown, write "unknown".

Item 9 Provide the engine model number. If it is unknown, write "unknown".

Item 10 The maximum continuous fuel design rate, (in million BTU per hour) refers to the engine's heat input.

Item 11 Report the maximum design horsepower and the site specific horsepower for the engine.

Item 12 Indicate the design heat rate of the engine in BTU/HP-hour.

Item 13 Indicate design ambient temperature range.

Item 14 Complete the table for the fuel presently used with this engine, plus a desired backup for an alternative operating scenario that doesn't require a physical changes to accommodate the fuel. The fuel data provided in this table will form the basis of any permit conditions necessary to ensure compliance with emission limits. You may specify parameter ranges. The stated limits should equal the expected maximum emission value. Specify the units (e.g., lbs/hr, BTU/SCF, SCF/yr, etc.) along with the numerical values for each fuel parameter.

Item 15 Outline the operating parameters used for the compliance determining method. Describe in the remarks any additional information that may be needed. You may specify parameter ranges. The stated limits should include the expected maximum emission value. Specify the units (e.g., degrees, pounds, etc.) along with the numerical values for each parameter. **This is information is not optional if parametric monitoring is used for compliance demonstration.**

Attach Form 2000-700 (Supplemental information) to characterize this engine under an alternative operating scenario.

INCINERATION **FORM 2000-303**

Rev 06-95

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:
2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:
4. Incinerator (Unit) code:
5. Unit description (include serial number):

6. Indicate the incinerator control technology status. Uncontrolled Controlled
If the incinerator is controlled, enter the control device number(s) from the appropriate form(s):
2000-400 ____ 2000-401 ____ 2000-402 ____ 2000-403 ____
2000-404 ____ 2000-405 ____ 2000-406 ____ 2000-407

7. Incinerator type

Single chamber Multiple chamber Controlled air Fixed hearth Stepped hearth Rotary kiln

Other (specify)

8. Date first placed in service: Date last modified:

9. Seasonal Throughput(%) Dec-Feb Mar-May Jun-Aug Sep-Nov

10. Normal operating schedule ____ hrs./day ____ days/wk. ____ hours/yr.
11. Maximum operating schedule ____ hrs./day ____ days/wk. ____ hours/yr.

12. Describe all materials to be burned in this unit.

Material to be burned	Origin	Weight percentage	Heating value

13. Type of incinerator charging Batch feed Continuous feed
Waste charging method Maximum Charging rate ____ lbs./hr

14. Combustion information	Design Temperature (°F)	Size (million BTU/hour)	Burner Fuels Used
Primary chamber			
Secondary chamber			

15. Residence time of gas in the secondary chamber

16. Total Fuel Used in 19 __: _____ million cubic feet Tons Material Burned in 19__ :___Tons

17. Is this incinerator equipped with a heat recovery system? Yes No
If yes, what is the projected energy production rate? (e.g., lbs steam/hr)

18. Is this incinerator equipped with an emergency dump stack? Yes No

19. Include as attachments to this form the following information: Attached?

a. Calculations of how the residence time of the exhaust gas in the secondary chamber was derived.
b. The energy and mass balance calculations for each waste.
c. A malfunction prevention and abatement plan.
d. Describe the start-up and shut down procedures, including their frequency.

***** For this emissions unit, identify the method of compliance demonstration by completing Form 2000-500, *****
DESCRIPTION OF METHODS USED FOR DETERMINING COMPLIANCE. Attach Form 2000-500 and its attachment(s) to this form.

***** Please complete the Air Pollution Control Permit Application Forms 2000-600 and 2000-601 for this Unit. *****

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each incinerator used to burn waste materials.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code for the stack exhausting this incinerator. Use the same code used on form 2000-200.

Item 4 Assign an identification code to this incinerator (e.g., I21). Use this code on other forms related to this operation.

Item 5 Give a brief description of the incinerator, including the manufacturer name and model number and serial number.

Item 6 If the incinerator is controlled, assign a control device number (e.g., C30) to the air pollution control device associated with it. Use this number on the appropriate form(s) 2000-400 through -407. Enter the code after the form number here also. The second chamber of a two chamber incinerator is not considered to be a control device.

Item 7 Check the appropriate incinerator type. If not one of the six listed, check "other" and specify the type.

Item 8 Record the date the unit was first placed in service and the date of the last modification of the emission unit may have affected the air pollutant emissions. Provide the month and day if possible. Write in "00" if unknown (e.g., 00/00/56).

Item 9 Fill in the normal seasonal throughput for each quarter as a percentage of the total annual throughput. The values must total 100%.

Item 10 Fill in the normal operating schedule.

Item 11 Fill in the maximum operating schedule.

Item 12 List specifically the types of materials to be incinerated (e.g., paper, cardboard, wood boxes, rags, restaurant animal and vegetable wastes, human and animal remains, industrial by-product liquid, semi-liquid or solid wastes, etc.). Identify the source or type of operation from which the wastes originate. For hazardous waste or wastes with complex chemical composition, provide a chemical analysis of the waste composition. Where a number of chemical analyses are available for a waste material, list the range of each value analyzed.

Item 13 Indicate whether the incinerator is batch or continuous feed. Provide the method by which wastes are charged. Examples are hand-fired, ram-fed, overhead grapple bucket to charging hopper, etc. Provide the design maximum charging rate.

Item 14 Provide the design primary and secondary combustion chamber temperatures, the maximum heat input (size) to each chamber in million BTU per hour, and list the fuels used by each burner (e.g., natural gas, No. 2 fuel oil, liquid propane, etc.). Include backup fuels. If your incinerator has only one combustion chamber, enter "NA" in the data fields for secondary chamber.

Item 15 Enter the residence time of gas in the secondary chamber. If your incinerator has only one combustion chamber, interpret this item to refer to that single chamber.

Item 16 Enter the total fuel consumption for the incinerator and the tons of material burned for the year identified.

Item 17 Check the appropriate box. If yes, fill in the projected energy production rate.

Item 18 If the incinerator has an emergency dump stack, attach documentation of the authority to use it. Since an emergency dump stack may only be used under specific circumstances (as approved in a permit, plan approval, or order issued by the Division), please briefly describe the authority you have to operate the dump stack. Form 2000-700 may be used for this purpose.

Item 19 See the manual for a brief description of the malfunction prevention and abatement plan. Use Form 2000-700 as needed to provide the information.

PRINTING OPERATIONS

FORM 2000-304
Rev 06-95

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:

2. Facility identification code: CO _ _ _ _ _ _ _

3. Stack identification code:

4. Process (Unit) code:

5. Unit description (include serial number):

6. Indicate the control technology status. Uncontrolled Controlled
If the process is controlled, enter the control device number(s) from the appropriate form(s):

2000-400 ____ 2000-401 ____ 2000-402 ____ 2000-403 ____
2000-404 ____ 2000-405 ____ 2000-406 ____ 2000-407

7. Operation type: Flexographic Web-offset Web-offset (non-heatset) Packaging Rotogravure
Publication Rotogravure Screen printing Other (specify)

8. Date first placed in service: Date of last modification:

9. Normal operating schedule: ____ hrs./day ____ days/wk. ____ hours/yr.

10. Oven curing (complete if applicable):
Number of ovens _____ Specify oven fuels
Total maximum energy input to each oven: mm BTU/Hr.
Total fuel usage for 19 : million cubic feet

11. Describe all of the inks' and solvents' composition (as applied) that are used by this unit. **The shaded areas are optional for data entry; however, if NSPS or Regulation 7 requirements apply to the unit, the applicable information must be provided**.

Name of ink a.	Maximum usage b.		Actual usage 19 c.	Solids % d.	VOC % e.	Water % f.	Exempt Solvent % g.	Ink Density h.	VOC less H_2O i.
	gal/hr	gal/yr	gal/yr	Wt	Wt	Wt	Wt	lbs/gal or lbs	lbs/gal
List the thinning solvents used with the inks identified above.									
Clean-up solvents									
Other (specify)									

***** For this emissions unit, identify the method of compliance demonstration by completing Form 2000-500, ***** DESCRIPTION OF METHODS USED FOR DETERMINING COMPLIANCE. Attach Form 2000-500 and its attachment(s) to this form.

***** Please complete the Air Pollution Control Permit Application Forms 2000-600 and 2000-601 for this Unit. *****

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each regulated printing operation. (Each Rotogavure, Web-offset, etc.)

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code for the stack exhausting this printing operation. Use the same code used on Form 2000-200. The same stack identification code should appear on all appropriate forms used in conjunction with this operation. If there is more than one stack exhausting this unit, please attach Form 2000-700 (Supplemental Information) to further describe the situation.

Item 4 Assign an identification code to this printing operation (e.g., Process P030). Use the existing identification code from the computer printout. Use this code on other forms related to this operation.

Item 5 Provide the manufacturer's name and equipment model and serial number for this printing operation. Specify dryer manufacturer and model, and specify the type of substrate to be printed. In addition, specify the maximum process weight rates for this operation in pounds per hour. Maximum process weight rate is the maximum weight of inks and substrate introduced to this operation in pounds per hour.

Item 6 Specify the type of control device used to reduce emissions from this operation. If the operation is uncontrolled, check "uncontrolled". For controlled operations, provide an identification code (e.g., C10, C20, etc.) for the control device. This assigned control device code should also be used on the appropriate Form(s) 2000-400 through -407. Enter the code after the form number here also.

Item 7 Specify printing methods (e.g., flexographic, web-offset, packaging rotogravure, etc.). If not one of the six listed, check "other" and specify the type.

Item 8 Provide the date the unit was first placed in service (month/day/year) and the date of the last modification of the unit which may have affected the air pollutant emissions. Please see instruction booklet for the definition of "modification".

Item 9 Specify normal operating schedule in hours per day, days per week, and hours per year.

Item 10 Describe any oven curing for this printing operation. Specify dryer fuels and dryer maximum heat input in million BTU per hour; also specify the number of ovens directly associated with this process line.

Item 11 Some of the columns have been shaded to identify the data entry is optional. If New Source Performance Standards (NSPS) or Regulation 7 requirements apply to the unit, information must be entered in the appropriate columns.

Item 11a Include all inks, fountain solutions, blanket washes (manual or automatic), clean-up and other solvents used in this operation or projected for use in the future under alternative operating scenarios. Do not forget to complete and attach Form(s) 2000-600, one for <u>each</u> material that emits hazardous air pollutants, for this printing operation. Printing operations that use large numbers of materials that emit hazardous air pollutants may submit a summary of hazardous emissions, as described in the instructions for Item 5 of Form 2000-600.

Item 11b Specify the maximum amount of inks or solvent used in gallons per hour and per year. These projections should be consistent reasonable assumptions about the maximum operating level of the emissions unit.

Item 11c Specify the actual usage of inks and solvents in gallons for the year noted.

Item 11d,e,f,g For flexographic, packaging rotogravure, or publication rotogravure operations specify the composition of inks, fountain solutions, etc. in percent by weight of d) solids, e) VOCs (Volatile Organic Compounds), f) water, and g) exempt solvents in the appropriate column. The information in column 11d is shaded and data entry is optional; but the information may be needed to demonstrate compliance with NSPS or Regulation 7 requirements.

Item 11h Specify the density of each ink or VOC in pounds per gallon or pounds. Circle which unit of measure is reported. The column is shaded and data entry is optional; however, the information may be needed to demonstrate compliance with NSPS or Regulation 7 requirements.

Item 11i For screen printing sources only, specify the VOC content of the ink in pounds per gallon less water (and exempt solvents), as applied.

e 1: Exempt solvents are those identified in the definition of VOC as having negligible photochemical reactivity. Methylene chloride and thyl chloroform (1,1,1-trichloroethane) are the two most commonly used exempt solvents in printing operations. Exempt Solvents may tain Hazardous Air Pollutants, ALL HAPS MUST BE LISTED ON FORM 2000-600.

e 2: The VOC content of the ink and other composition information may be available from your ink supplier.

***** Please do not forget to complete Form 2000-500, *****
DESCRIPTION OF METHODS USED TO DEMONSTRATE COMPLIANCE.

NOTE: WHERE MATERIAL DATA SAFETY SHEETS (MSDS) ARE SUBMITTED, <u>ONLY ONE COPY OF EACH MSDS SHEET HAS TO BE PROVIDED</u> WITH THE APPLICATION PACKAGE CONTAINING THE ORIGINAL SIGNATURE OF THE CERTIFYING OFFICIAL.

MSDS do not have to be provided for insignificant activities.

Operating Permit Application

Colorado Department of Public Health and Environment

Air Pollution Control Division

PAINTING AND COATING OPERATIONS

FORM 2000-305

Rev 06-95

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:

2. Facility identification code: CO _ _ _ _ _ _ _

3. Stack identification code:

4. Process (Unit) code:

5. Unit description (with serial number):

6. Indicate the control technology status. Uncontrolled Controlled

If the process is controlled, enter the control device code(s) from the appropriate form(s):

2000-400 ____ 2000-401 ____ 2000-402 ____ 2000-403 ____

2000-404 ____ 2000-405 ____ 2000-406 ____ 2000-407

7. Application technique and transfer efficiency (%):

8. Date placed in service: Date of last modification:

9. Normal operating schedule: ____ hrs/day ____ days/wk ____ hours/yr

10. Oven curing (complete if applicable):

Number of ovens _____ Specify oven fuels

Total Maximum Energy input to each oven: _____mmBTU/Hr.

Total fuel usage for 19 : _____ million cubic feet

11. Describe all of the coatings' and solvents' composition (as applied) that are used by this unit. **Data entry in the shaded columns of the table is optional; however, if NSPS or Regulation 7 requirements apply to the unit, the applicable information must be provided**.

Name of coating a.	** b.	T c.	Maximum usage d.		Actual usage 19 e.	Solids % f.	VOC % g.	Water % h.	Exempt solvent % i.	Coating or VOC Density j.	VOC less H_2O k.
		°F	gal/hr	gal/yr	gal/yr	Wt	Wt	Wt	Wt	lbs/gal	lbs./gal

List the thinning solvents used with the coatings identified above.

Clean-up solvents									
Other (specify)									

***** For this emissions unit, identify the method of compliance demonstration by completing Form 2000-500, ***** DESCRIPTION OF METHODS USED FOR DETERMINING COMPLIANCE. Attach Form 2000-500 and its attachment(s) to this form.

***** Please complete the Air Pollution Control Permit Application Forms 2000-500 and 2000-601 for this Unit. *****

* Use the following codes in this column: 1 - for air dried coatings; 2 - for clear coatings; 3 - for cured coatings; 4 - for extreme performance coatings; 5 - for other (specify)

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each regulated painting or coating operation.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide an identification code for the stack exhausting this painting or coating operation (e.g. S010, S020, etc.). The same stack dentification code should appear on all appropriate forms used in conjunction with this operation. If there is more than one stack exhausting this nit, please attach Form 2000-700 (Supplemental Information) to further describe the situation. Use the same code used on Form 2000-200.

Item 4 Assign a process code for this painting or coating operation (Process P030, Process P025, etc.). This code will be used as the dentification code for this operation. Use the existing identification code from the computer printout if not prefilled on form. This code should also ppear on the other appropriate forms for this painting or coating operation: forms for control system, compliance determination, and stack dentification.

Item 5 Provide the manufacturer's name and the equipment model and serial number. Also specify dryer manufacturer and model number. pecify the products and substrate to be coated or painted. In addition, specify the maximum process weight rates for this operation in pounds er hour (maximum process weight is the maximum weight of coating and products per hour).

Item 6 Specify the type of control device used to reduce emissions from this operation. If the operation is uncontrolled, check uncontrolled". Provide the identification code (e.g., C30, C40) of the control device. The same code should also appear on any of the Form(s) 000-400 through -407 used and all other forms completed for this control device. Enter the code after the form number here also.

Item 7 Specify the application technique for this operation (e.g. spraying, roll coating, etc.). Specify the transfer efficiency for this operation. ransfer efficiency is the portion of coating solids which adheres to the surface being coated during the application process, expressed as a ercentage of the total volume or weight of coating solids delivered to the application. The transfer efficiency is shaded meaning providing the fficiency is optional. Data entry may be needed to demonstate compliance with NSPS requirements.

Item 8 Provide the date the unit was first placed in service (month/day/year) and the date of the last modification of the unit which may have ffected the air pollutant emissions. Please see instructions booklet for the definition of "modification". Provide the month and day if possible write in "00" if unknown (e.g., 00/00/56)).

Item 9 Specify normal operating schedule in hours per day, days per week, and hours per year.

Item 10 Specify the number of ovens, the fuels, the maximum heat input in million BTU per hour, and total annual fuel usage for the specified alendar year.

Item 11 Data entry in the shaded columns of the table are optional; however, if New Source Performance Standards (NSPS) or Regulation 7 equirements apply to the unit, the applicable data must be provided.
nclude all paints, coatings, and clean-up solvents used in this operation or projected for use in the future under alternative operating scenarios. lease do not forget to complete and attach Form(s) 2000-600, one for <u>each</u>

ıaterial that emits hazardous air pollutants, for this painting or coating operation. Painting or coating operations that use large numbers of ıaterials that emit hazardous air pollutants may submit a summary of hazardous emissions, as described in the instructions for Item 5 of Form 000-600.

Item 11a Provide the names or identifying codes of the paints, coatings, and clean-up solvents.

Item 11b Specify the coating category (i.e., ** code on the form) by writing the appropriate code: (1) air dried, (2) clear, (3) cured, (4) extreme performance, or (5) other. A coating is considered cured if the coated object is heated in excess of 194 ^{o}F. Extreme performance coatings are those designed for harsh exposure to one or more of the following: the weather all the time, temperatures consistently above 203 ^{o}F (95 ^{o}C), detergents, abrasive and scouring agents, solvents, corrosive atmospheres, or similar environmental conditions.

Item 11c Specify the temperature of the coated material as it leaves the oven, in degrees F.

Item 11d Specify the maximum amount of coating or solvent used in gallons per hour and per year. These projections should be consistent reasonable assumptions about the maximum operating level of the unit.

Item 11e Specify the actual usage of coatings and solvents in gallons for the year entered.

Items 11f-11i Specify the composition of coatings in weight percent, as applied. For each coating, specify the weight percentage of f) solids, g) VOC,
h) water, and i) exempt solvent in the appropriate column. (See Note 1 below) Column 11f. is shaded meaning data entry is optional; however, the information may be needed to demonstrate compliance with NSPS requirements.

Item 11j Specify the density of each coating or VOC in pounds per gallon. This information is necessary for the calculation of VOC content at column 11k.

Item 11k Specify the VOC content of the coating in pounds per gallon less water (and exempt solvents), as applied. See the instructions booklet for examples of this calculation. This column is shaded meaning data entry is optional; however, the information may be needed to demonstrate compliance with NSPS requirements.

xempt solvents are those identified in the definition of VOC as having negligible photochemical reactivity. Methylene chloride and methyl ı (1,1,1-trichloroethane) are the two most commonly used exempt solvents in coating operations.

ıe VOC content of the coating and other composition information may be available from your coating supplier.

Please do not forget to complete Form 2000-500, DESCRIPTION OF METHODS USED TO DEMONSTRATE COMPLIANCE.

NOTE: WHERE MATERIAL DATA SAFETY SHEETS (MSDS) ARE SUBMITTED, <u>ONLY ONE COPY OF EACH MSDS SHEET HAS TO BE PROVIDED</u> WITH THE APPLICATION PACKAGE CONTAINING THE ORIGINAL SIGNATURE OF THE CERTIFYING OFFICIAL.

MSDS do not have to be provided for insignificant activities.

MISCELLANEOUS PROCESSES

FORM 2000-306

Rev 06-95

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:
2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:
4. Process (Unit) code:
5. Unit description:
6. Indicate the control technology status. Uncontrolled Controlled

If the process is controlled, enter the control device code(s) from the appropriate form(s):

2000-400 ____ 2000-401 ____ 2000-402 ____ 2000-403 ____
2000-404 ____ 2000-405 ____ 2000-406 ____ 2000-407

7. Actual annual process rates for 19
8. Date first placed in service: Date of last modification:
9. Normal operating schedule: ____ hrs./day ____ days/wk. ____ hours/yr.
10. Describe this process (please attach a flow diagram of the process). Attached?

11. List the types and amounts of raw materials used in this process:

Material	Storage/material handling process	Actual usage	Units	Maximum usage	Units
Clean-up solvents					
Other (specify)					

12. List the types and amounts of finished products:

Material	Storage/material handling process	Actual amount produced	Units	Maximum amount produced	Units

13. Process fuel usage:

Type of fuel	Maximum heat input to process million BTU/hr.	Actual usage	Units	Maximum usage	Units

14. Describe any fugitive emissions associated with this process, such as outdoor storage piles, unpaved roads, open conveyors, etc.:

***** For this emissions unit, identify the method(s) of compliance demonstration by completing Form 2000-500, *****
DESCRIPTION OF METHODS USED FOR DETERMINING COMPLIANCE. Attach Form 2000-500
and its attachment(s) to this form.

***** Please complete the Air Pollution Control Permit Application Forms 2000-600 and 2000-601 for this Unit. *****

MISCELLANEOUS PROCESSES -- Form 2000-306

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each regulated miscellaneous process.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code for the stack exhausting this process. Use the same code used on form 2000-200.

Item 4 Assign an identification code to this process (e.g., P021). Use this code on other forms related to this operation.

Item 5 Provide a brief description of this unit. List the manufacturer and model number.

Item 6 If this process is controlled, assign a control device code (e.g., C30) to the air pollution control device associated with it. Use this code on the appropriate form(s) 2000-400 through -407. Enter the code after the form number here also.

Item 7 Enter the year for which the actual process rates are given in the following.

Item 8 Record the date the emission unit was first placed in service and the date of the last modification that may have affected the air pollutant emissions. Provide the month and day if possible. Write in "00" if unknown (e.g., 00/00/56).

Item 9 Provide the normal operating schedule.

Item 10 Briefly describe the process, including types of operations involved, end product of the process and use of the product. Attach a flow diagram of the process, identifying major pieces of equipment; pickup points for dusts, fumes and vapors; control and collection devices; exhaust stack and vents; where raw materials enter the process; and where finished products exit. Indicate if the process is batch or continuous. Use form 2000-700 for additional information, and mark the box "attached."

Item 11 List all of the materials put into the process and the actual and maximum amounts used (in pounds per hour or tons per hour). This is the process weight rate. List any solvents, additives, cleaners, etc. (in gallons per hour or per year) used with this process. If the process produces more than one product, include a list of the raw materials used to produce each product. Describe any storage and materials handling processes. If the process has no "raw materials" per se, write "NA" in each field across the first line of item 11.

Item 12 List the types of finished products and the average and maximum amounts produced. Describe any storage and material handling processes. If the process has no "finished products" per se, write "NA" in each field across the first line of item 13.

Item 13 List all of the fuels the process uses or is capable of using. Provide the average and maximum amount of fuel used per hour of operation of the process. Provide the maximum heat input capacity for the fuel burner for the process. Provide an analysis of the fuel used, including at a minimum heat content, sulfur content and density. Coal, residual (#5 and #6) oils, sludge, waste oils, refuse derived fuels, etc., will require the submittal of an analysis of hazardous contaminants. Please attach these analyses to this form.

If the process uses no process fuels, write "none" under "type of fuel" and "NA" in the remaining fields of the first line of item 12.

Item 14 Briefly describe the fugitive sources. Include size of storage piles, material stored, length of roads, and any control measures used. Attach detailed information as appropriate. If you've used this form to describe a source of fugitive emissions, write "see above."

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	4. Dehydrator (Unit) code:

5. Unit description:

6. Indicate the dehydrator control technology status. Uncontrolled Controlled

If the dehydrator is controlled, enter the control device number(s) from the appropriate forms:
2000-400 ____ 2000-403

7. Manufacturer:	9. Regenerator heater design rate or maximum continuous rating (mmBTU/hr):
8. Model & serial number:	

10. Date first placed in service: Date of last modification:

11. Flash Tank: Yes No Flash tank vented to: atmosphere process

12. Glycol Circulation rate: gallons per minute gallon per pound of H_2O
OR

13. Pipeline Capacity: (mmscf/day):

14. Glycol Type: Triethylene Glycol Ethylene Glycol Other (specify)

15. Glycol Make-up Rate (gallons/year):

16. Computer model input & output printout attached

17. Gas Pressure (psi):

18. Gas Temperature (F):

19. Gas composition test results	VOC		BTEX		HEXANE	
Test date:_____/_____/_____	value	units	value	units	value	units

*****For this emissions unit, identify the method of compliance demonstration by completing Form 2000-500, *****
DESCRIPTION OF METHODS USED FOR DETERMINING COMPLIANCE. Attach Form 2000-500
and its attachment(s) to this form.

***** Please complete the Air Pollution Control Permit Application Forms 2000-600 and 2000-601 for this Unit. *****

NOTE: THE SPECIALIZED APEN FOR A GLYCOL DEHYDRATION UNIT MUST BE COMPLETED AND SUBMITTED IF THE STILL VENT EMISSIONS HAVE NOT BEEN REPORTED BEFORE

GLYCOL DEHYDRATION UNIT -- Form 2000-307

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Use "NA" where necessary to identify an information request that does not apply.

Complete one form for each dehydration unit with regulated emissions.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code for the stack exhausting the deydration unit. Use the same code used on form 2000-200.

Item 4 Assign an identification code to this dehydrator (e.g., D021).

Item 5 Provide a brief description of this unit. Use Form 2000-700 as needed for additional information.

Item 6 If the emissions from this unit are controlled, assign a control device code (e.g., C30) to the air pollution control device associated with Use this code on the appropriate form(s) 2000-400 through -407. Enter the code after the form number here also.

Item 7 Identify the glycol dehydration unit manufacturer. If it is unknown, write "unknown".

Item 8 Provide the glycol dehydration unit model number and serial number. If it is unknown, write "unknown".

Item 9 The maximum continuous rating of the regenerator refers to the regenerator's ability to sustain a maximum heat input for three hours. ɔvide the rating (in million BTU per hour).

Item 10 Record the date the unit was first placed in service and the date of the last modification that may have affected the air pollutant emissions. Provide the month and day if possible. Write in "00" if unknown (e.g., 00/00/56).

Item 11 Identify if unit has a flash tank. If there is a tank, where is the tank vented.

Item 12 Report the appropriate circulation rate.

Item 13 Identify the capacity or pipeline through put being served by the unit.

Item 14 Mark the type of glycol in use.

Item 15 Record the glycol make-up rate in gallons per year.

Item 16 Computer models (e.g. GRI-DEHY, GRI-GLY, Hi-Sym) are available for calculating the emissions. Attach a copy of the printout from this model. The printout must include both the model inputs and outputs.

Item 17 Gas pressure in pipeline in psi.

Item 18 Gas temperature

Item 19 Gas inlet composition - results from most recent test.

CONTROL EQUIPMENT - MISCELLANEOUS

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	4. Unit identification code:
5. Control device code:	

6. Manufacturer and model number:

7. Date placed in service: Date of last modification:

8. Describe the device being used. Attach a diagram of the system.

9. List the pollutants to be controlled by this equipment and the expected control efficiency for each pollutant on the table below. Documentation attached **EITHER the outlet pollutant concentration OR the control efficiency must be provided.**

Pollutant	Inlet pollutant concentration		Emission capture efficiency (%)	Outlet pollutant concentration		Control Efficiency (%)
	gr/acf	ppmv		gr/acf	ppmv	

10. Discuss how the collected material will be handled for reuse or disposal.

11. Prepare a malfunction prevention and abatement plan for this pollution control system. The plan does not have to be submitted with the application. It is suggested the plan include, but not be limited to the following:

a. Identification of the individual(s), by title, responsible for inspecting, maintaining and repairing this device.
b. Operation variables such as temperature that will be monitored in order to detect a malfunction or breakthrough, the correct operating range of these variables, and a detailed description of monitoring or surveillance procedures that will be used to show compliance.
c. What type of monitoring equipment will be provided (temperature sensors, pressure sensors, CEMs).
d. An inspection schedule and items or conditions that will be inspected.
f. Where is this plan available for review?

NOTE: COMPLETION OF INFORMATION IN SHADED AREA OF THIS FORM IS OPTIONAL

CONTROL EQUIPMENT - MISCELLANEOUS -- Form 2000-400

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each control device used to reduce air pollution emissions.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code for the stack exhausting this device. Use the same number used on form 2000-200.

Item 4 Provide the identification number from the appropriate form(s) 2000-300, -301, -302, -303, -304, -305, -306, or -307 completed for the emissions unit(s) that will have its emissions reduced by this control equipment.

Item 5 Assign an identification number to this control device (e.g., C001). Use this number when referring to this device throughout the rest of your application.

Item 6 Indicate the equipment manufacturer and its model number.

Item 7 Provide the date the device was placed in service and the date of the last modification that may have affected the air pollutant emissions. Provide the month and day if possible. Write in "00"if unknown (e.g.,00/00/56).

Item 8 Describe the device in sufficient detail for the reviewer to clearly understand how the device controls air pollution. Attach any calculation. Attach a diagram that shows all equipment parts necessary for successful operation and any monitoring equipment provided. Manufacturer's literature may be used. Attach extra information on form 2000-700.

Item 9 For each pollutant controlled, enter the inlet pollutant concentration and outlet pollutant concentration (use the same units), emission capture efficiency, and the overall efficiency of the control device. You must provide **either** the outlet pollutant concentration **or** the control efficiency. The outlet concentration and the control efficiency may be from stack test data, CEM data, AP-42, mass balance, manufacturer-supplied guarantees, engineering judgement, or by other means approved by the Division. Indicate that data is attached. Since annual fees are based on actual emissions, additional documentation may be required by the Division.

Item 10 Discuss how collected material will be contained, transported, and ultimately disposed of. Examples of ultimate disposal include the local wastewater treatment plant or landfill. Describe any waste recycling or reuse.

Item 11 Prepare a malfunction prevention and abatement plan. Please be as detailed as possible. While it is not necessary to submit this plan with the permit application, the Division may at any time request a copy of this plan from the facility.

CONTROL EQUIPMENT - CONDENSERS

FORM 2000-401

Rev 06-95

SEE INSTRUCTIONS ON REVERSE SIDE

Section A

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	4. Unit identification code:
5. Control device code:	

6. Manufacturer and model number:

7. Date first placed in service: Date last modified:

8. Describe the condenser used. Attach a diagram of the system.

9. List the pollutants to be controlled by this equipment and the expected control efficiency for each pollutant on the table below. Documentation attached **EITHER the outlet pollutant concentration OR the control efficiency must be provided.**

Pollutant	Inlet pollutant concentration ppmv	Emission capture efficiency (%)	Outlet pollutant concentration ppmv	Control Efficiency (%)

10. Discuss how the collected material will be handled for reuse or disposal.

11. Prepare a malfunction prevention and abatement plan for this pollution control system. The plan does not have to be submitted with the application. It is suggested the plan include, but not be limited to following:
a. Identification of the individuals(s), by title, responsible for inspecting, maintaining and repairing this device.
b. Operation variables such as temperature that will be monitored in order to detect a malfunction or breakthrough, the correct operating range of these variables, and a detailed description of monitoring or surveillance procedures that will be used to show compliance.
c. What type of monitoring equipment will be provided (temperature sensors, pressure sensors, CEMs).
d. An inspection schedule and items or conditions that will be inspected.
e. Where is this plan available for review?

Section B

The following questions must be answered by sources installing new equipment or existing Units that cannot document control efficiency of this device by other means.

12. Average specific heat of the condensing medium (BTU/lb/°F):	13. Pressure drop range across the coolant (psia):
14. Mass flow rate of condensing medium (lb/hr):	15. Temperatures of the condensing medium (°F): T(inlet) ____ T(outlet)
16. Composition of the condensing medium:	17. Mass flow rate of the vapor stream (lb/hr):
18. Average specific heat of the vapor stream (BTU/lb/°F)	19. Inlet and outlet temperature of the vapor stream(°F) T(inlet) ____ T(outlet)
20. Heat transfer area of the device (ft^2):	21. Heat transfer coefficient ($BTU/ft^2/hr/°F$)

NOTE: COMPLETION OF INFORMATION IN SHADED AREA OF THIS FORM IS OPTIONAL

CONTROL EQUIPMENT - CONDENSERS -- Form 2000-401

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed.
Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each control device used to reduce air pollution emissions.
Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code for the stack exhausting this device. Use the same code used on form 2000-200.

Item 4 Provide the identification code from the appropriate form(s) 2000-300, -301, -302, -303, -304, -305, -306, or -307 completed for the emissions unit(s) that will have its emissions reduced by control equipment.

Item 5 Assign an identification code to this control device (e.g., C001). Use this code when referring to this device throughout the rest of your application.

Item 6 Indicate the equipment manufacturer and its model number.

Item 7 Provide the date this device was first placed in service and the date of the last modification which may have affected the air pollutant emissions.

Item 8 Describe the device. For contact condensers, discuss type of spray nozzle and the mist elimination system or the number of baffles. If this is a surface condenser, discuss whether it is s, concurrent, or countercurrent, the type of extended surface tubes, etc. Provide calculations. Attach a diagram which clearly shows all equipment parts necessary for successful operation. ıufacturer's literature may be used. Attach extra information on form 2000-700.

Item 9 For each pollutant controlled, enter the inlet pollutant concentration, emission capture efficiency, outlet pollutant concentration, and the overall efficiency of the control device for each utant emitted. You must provide **either** the outlet pollutant concentration **or** the control efficiency. The outlet concentration and the control efficiency may be from stack test data, CEM data, AP- mass balance, manufacturer-supplied guarantees, engineering judgement, or by other means approved by the Division. Indicate, by checking the box, the information is attached to this form. Since ıal fees are based on actual emissions, additional documentation may be required by the Division. If you can not complete this table or do not have documentation to support your information, you have to fill out section B of this form or your permit application will be considered incomplete.

Item 10 Discuss how collected material will be contained, transported, and ultimately disposed of. Examples of ultimate disposal include the local wastewater treatment plant or landfill. Describe waste recycling or reuse.

Item 11 Prepare a malfunction prevention and abatement plan. Please be as detailed as possible. While it is not necessary to submit this plan with the permit application, the Division may at any request a copy of this plan from the facility.

Section B - This section must be completed by sources installing new equipment or by existing sources which cannot otherwise document the control efficiency of this device (such as with current stack test results). IF YOU HAVE ALREADY SUBSTANTIATED THE CONTROL EFFICIENCY OF THE DEVICE AT ITEM 9 ABOVE, YOU DO NOT NEED TO COMPLETE SECTION B.

Item 12 Indicate the average specific heat of the coolant over the operating temperature range of the device.

Item 13 Give the pressure drop range across the coolant (in pounds per square inch absolute).

Item 14 Indicate the mass flow rate of coolant through the device (in pounds per hour).

Item 15 Indicate the operating inlet temperature and outlet temperature of the coolant (in degrees F).

Item 16 Indicate the substance to be used as the coolant.

Item 17 Give the mass flow rate of the vapor through the device (in pounds per hour). Ideal gas law may be assumed to apply.

Item 18 Indicate the specific heat of the vapor over the operating temperature range of the device.

Item 19 Indicate the operating inlet temperature and outlet temperature of the vapor (in degrees F).

Item 20 Indicate the heat transfer area of the device (in square feet). Show all calculations.

Item 21 Indicate the overall heat transfer coefficient. Show all calculations.

CONTROL EQUIPMENT - ADSORBERS

FORM 2000-402

Rev 06-95

SEE INSTRUCTIONS ON REVERSE SIDE

Section A

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	4. Unit identification code:
5. Control device code:	
6. Manufacturer and model number:	
7. Date first placed in service:	Date last modified:
8. Describe the adsorber used. Attach a diagram of the system.	

9. List the pollutants to be controlled by this equipment and the expected control efficiency for each pollutant on the table below.
Documentation attached **EITHER the outlet pollutant concentration OR the control efficiency must be provided.**

Pollutant	Inlet pollutant concentration ppmv	Emission capture efficiency (%)	Outlet pollutant concentration ppmv	Control Efficiency (%)

10. Gas flow rate (ACFM):	11. Gas temperature at the inlet (°F):
12. Bed operating temperature (°F) or range:	

13. Discuss how the collected material will be handled for reuse or disposal.

14. Prepare a malfunction prevention and abatement plan for this pollution control system. The plan does not have to be submitted with the application. It is suggested the plan include, but not be limited to the following:
a. Identification of the individuals(s), by title, responsible for inspecting, maintaining and repairing this device.
b. Operation variables such as temperature that will be monitored in order to detect a malfunction or breakthrough, the correct operating range of these variables, and a detailed description of monitoring or surveillance procedures that will be used to show compliance.
c. What type of monitoring equipment will be provided (temperature sensors, pressure sensors, CEMs).
d. An inspection schedule and items or conditions that will be inspected.
e. Where is this plan available for review?

Section B

The following questions must be answered by sources installing new equipment or existing Units which cannot document control efficiency of this device by other means.

15. Describe gas pretreatment methods:

16. Breakthrough capacity in lb. vapor/lb. adsorbent:	17. Partial pressure(s) of all pollutants in the inlet gas:
18. Describe the adsorption medium:	
19. Bed void space (ft^3):	20. Dimensions of the adsorption bed (ft.):
21. Porosity (%):	22. Maximum gas velocity through the device (ft./min):

23. Indicate if the bed material is disposable. Discuss method of disposal or regeneration method. Provide a schedule of bed replacement or regeneration.

NOTE: COMPLETION OF INFORMATION IN SHADED AREA OF THIS FORM IS OPTIONAL

CONTROL EQUIPMENT - ADSORBERS -- Form 2000-402

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each device used to reduce air pollution emissions.

Item 1 Provide the name of the facility.

Item 2 Provide facility identification (FID) code.

Item 3 Provide the identification code of the stack exhausting this device. Use the same code used on Form 2000-200.

Item 4 Provide the identification code from the appropriate source Form 2000-300, -301, -302, -303, -304, -305, -306,or -307 completed for the emissions unit(s) that will have its sions reduced by this control equipment.

Item 5 Assign an identification code to this control equipment such as C001. Use this code when referring to this device throughout the rest of your application.

Item 6 Indicate the equipment manufacturer and its model number.

Item 7 Provide the date this device was first placed in service and the date of the last modification that may have affected the air pollutant emissions.

Item 8 Describe the device indicating whether it uses a fixed, moving or fluidized bed, if it involves multiple beds, if solvent is recycled (for fluidized beds), and any other relevant nation. Also include calculations and design parameters used to determine adsorber type and size. Attach a diagram of the device which clearly shows all equipment parts ssary for successful operation. Manufacturer's literature may be used. (Attach extra sheets if needed; Form 2000-700 may be used for this purpose.)

Item 9 For each pollutant controlled, enter the inlet pollutant concentration, emission caputure efficiency, outlet pollutant concentration, and the overall efficiency of the control e for each pollutant emitted. You must provide **either** the outlet pollutant concentration **or** the control efficiency. The outlet pollutant concentration and the control efficiency may be stack test data, CEM data, AP-42, mass balance, manufacturer-supplied guarantees, engineering judgement, or by other means approved by the Division. Checking the box to ate information is attached to this form. Since annual fees are based on actual emissions, additional documentation may be required by the Division. If you cannot complete this or provide documentation for your information, you will have to fill out section B of this form or your permit application will be considered incomplete.

Item 10 Indicate the volumetric gas flow rate in actual cubic feet per minute.

Item 11 Give the gas temperature at the inlet in degrees fahrenheit.

Item 12 Give the operating temperature range of the bed in degrees fahrenheit.

Item 13 Discuss the fate of the collected material - how it will be contained, transported, and its ultimate destination for disposal. Examples of ultimate disposal include the local ewater treatment plant or landfill. Describe any waste recycling or reuse.

Item 14 Prepare a malfunction prevention and abatement plan. Please be as detailed as possible. While it is not necessary to submit this plan with the permit application, the ion may at any time request a copy of this plan from the facility.

Section B - This section must be completed by sources installing new equipment or by existing sources which cannot otherwise document the control efficiency of this device (such as with current stack test results). IF YOU HAVE ALREADY SUBSTANTIATED THE CONTROL EFFICIENCY OF THE DEVICE AT ITEM 9 ABOVE, YOU DO NOT NEED TO COMPLETE SECTION B.

Item 15 Describe any gas pretreatment methods, such as heating, cooling, or passing gas through a dust collection device prior to adsorption.

Item 16 Give the breakthrough capacity in pounds of vapor per pound of adsorbent. This is the capacity of the bed at which unreacted vapors begin to be exhausted.

Item 17 Describe the composition of the inlet gas stream. Give the partial pressures of each pollutant.

Item 18 Describe the chemical composition of the bed material. Include manufacturer's literature if available.

Item 19 Give the void volume of the bed in cubic feet. This is the empty space between the bed particles.

Item 20 Give the dimensions of the adsorber bed, either length, width, and height, or bed depth and radius, in feet. If only the bed volume is available, the bed depth must also be ated. This is the dimension parallel to the gas flow.

Item 21 Give the porosity of the bed particles. This is the percent of the total particle volume that is pore space.

Item 22 Indicate the maximum gas velocity through the device in feet per minute.

Item 23 Indicate your plan for disposal of spent bed material and/or your method and schedule of bed regeneration.

CONTROL EQUIPMENT - CATALYTIC OR THERMAL OXIDATION

Form 2000-403

Rev 06-95

SEE INSTRUCTIONS ON REVERSE SIDE

Section A

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	4. Unit identification code:
5. Control device code:	
6. Manufacturer and model number:	
7. Date placed in service:	Date last modified:
8. Describe the oxidation system. Attach a diagram of the system.	

9. List the pollutants to be controlled by this equipment and the expected control efficiency for each pollutant on the table below. Documentation attached **EITHER the outlet pollutant concentration OR the control efficiency must be provided.**

Pollutant	Inlet pollutant concentration		Outlet pollutant concentration		Control Efficiency (%)	
	gr/acf	ppmv	gr/acf	ppmv	Emission Capture	Pollutant Destruction

10: Check one: Catalytic Thermal oxidizer

11. Discuss how the spent catalyst will be handled for reuse or disposal.

12. Prepare a malfunction prevention and abatement plan for this pollution control system. The plan does not have to be submitted with the application. It is suggested the plan include, but not be limited to the following:
a. Identification of the individuals(s), by title, responsible for inspecting, maintaining and repairing this device.
b. Operation variables such as temperature that will be monitored in order to detect a malfunction or breakthrough, the correct operating range of these variables, and a detailed description of monitoring or surveillance procedures that will be used to show compliance.
c. An inspection schedule and items or conditions that will be inspected. For catalytic oxidizers, discuss the replacement and/or regeneration schedule for the bed and steps you have taken to ensure the bed's proper functioning throughout its expected lifetime.
d. Where is this plan available for review?

Section B

The following questions must be answered by sources installing new equipment or existing Units which cannot document control efficiency of this device by other means. (Catalytic/Thermal dependent on item 10)

Catalytic oxidation	Thermal oxidation
13a. Operating temperature (°F): Max ____ Min	b. Operating temperature (°F): Max ____ Min
14a. Catalyst bed volume (ft^3):	b. Combustion chamber volume (ft^3):
15a. Gas volumetric flow rate at combustion conditions (ACFM):	b. Maximum gas velocity through the device (ft./sec):
16a. Type of fuel used:	b. Type of fuel used:
17a. Max fuel use rate (BTU/Hr):	b. Maximum fuel used (BTU/Hr):
18a. Type and volume of catalyst used (ft^3):	
19a. Residence time (seconds):	b. Residence time (seconds):

NOTE: COMPLETION OF INFORMATION IN SHADED AREA OF THIS FORM IS OPTIONAL

CONTROL EQUIPMENT - CATALYTIC OR THERMAL OXIDATION -- Form 2000-403

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each control device used to reduce air pollution emissions.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code for the stack exhausting to this device. Use the same code used on form 2000-200.

Item 4 Provide the identification code from the appropriate form(s) 2000-300, -301, -302, -303, -304, -305, -306, or -307 completed for the emissions unit(s) that will have its emissions reduced by this control equipment.

Item 5 Assign an identification code to this control device (e.g., C001). Use this code when referring to this device throughout the rest of your application.

Item 6 Indicate the equipment manufacturer and its model number.

Item 7 Provide the date the device was first placed in service and the date of the last modification that may have affected the air pollutant emissions.

Item 8 Give a description of the oxidation system including the type of burner, burner arrangements, type of fan, construction materials, type of heat recovery system if used, and other relevant information. Attach a diagram of the device which clearly shows all equipment parts, including the heat recovery system, necessary for successful operation. Manufacturer's literature may be used. Attach extra information on form 2000-700.

Item 9 For each pollutant controlled, enter the inlet pollutant concentration and outlet pollutant concentration (use the same units), and the overall efficiency of the control device. You must provide **either** the outlet pollutant concentration **or** the control efficiency. YOU MUST DOCUMENT all data by stack test, manufacturer-supplied guarantees, or by other means approved by the Division. Indicate that data is attached.

Item 10 Check the appropriate box indicating if this is a catalytic or a thermal oxidation system.

Item 11 (Optional reporting for this item) Discuss how collected material will be contained, transported, and the ultimate disposal. Examples of ultimate disposal include the local stewater treatment plant or landfill. Describe any waste recycling or reuse.

Item 12 Prepare a malfunction prevention and abatement plan. Please be as detailed as possible. While it is not necessary to submit this plan with the permit application, the sion may at any time request a copy of this plan from the facility.

Section B - This section must be completed by sources installing new equipment or by existing sources which cannot otherwise document the control efficiency of this device (such as with current stack test results). IF YOU HAVE ALREADY SUBSTANTIATED THE CONTROL EFFICIENCY OF THE DEVICE AT ITEM 9 ABOVE, YOU DO NOT NEED TO COMPLETE SECTION B. **Note: If your oxidation system is catalytic, answer only column a. If it is thermal, answer only column b.**

Item 13 a. Indicate the maximum and minimum temperatures in the catalyst bed (in degrees F).
b. Give the maximum and the minimum operating temperatures for the combustion chamber of the incinerator.

Item 14 Give the volume of the catalyst bed or combustion chamber (in $feet^3$).

Item 15 a. Indicate the volumetric flow rate of the gas at the temperature and pressure under which combustion occurs.
b. Indicate the maximum gas velocity through the device at the temperature and pressure under which combustion occurs.

Item 16 List the type of fuel (if any) that will be used in the catalytic or thermal oxidation system. If none, write "none". Indicate sulfur content for non-gaseous fuels.

Item 17 Give the maximum hourly rate of fuel consumption for this unit (in Btu/hr).

Item 18 Give the type of substance used as a catalyst and the volume used (in $feet^3$).

Item 19 Indicate the gas residence time. This is generally equal to the volume of the combustion chamber divided by the gas volumetric flow rate at combustion conditions.

SEE INSTRUCTIONS ON REVERSE SIDE

Section A

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code	4. Unit identification code:
5. Control device code:	

6. Manufacturer and model number:

7. Date first placed in service: Date last modified:

8. Describe the cyclone, multicyclone or gravity settling chamber. Attach a diagram of the system.

9. List the pollutants to be controlled by this equipment and the expected control efficiency for each pollutant on the table below. Documentation attached **EITHER the outlet pollutant concentration OR the control efficiency must be provided.**

Pollutant	Inlet pollutant concentration	Outlet pollutant concentration	Control Efficiency (%)
	gr/acf	gr/acf	

10. Pressure drop across the device (inches of H_2O):

11. Discuss how the collected material will be handled for reuse or disposal.

12. Prepare a malfunction prevention and abatement plan for this pollution control system. The plan does not have to be submitted with the application. It is suggested the plan include, but not be limited to the following:
a. Identification of the individuals(s), by title, responsible for inspecting, maintaining and repairing this device.
b. Operation variables such as pressure drop that will be monitored in order to detect a malfunction or breakthrough, the correct operating range of these variables, and a detailed description of monitoring or surveillance procedures that will be used to show compliance.
c. An inspection schedule and items or conditions that will be inspected.
d. Where is this plan available for review?

Section B

The following questions must be answered by sources installing new equipment or existing Units which cannot document control efficiency of this device by other means.

13. Device dimensions:	14. Gas flow rate (ACFM):
15. Inlet gas velocity (ft/sec):	16. Inlet gas temperature (°F):
17. Mean particle diameter (microns):	18. Particle density (lb/ft^3):

19. Number of turns (for cyclones) or number of parallel chambers (for gravity settling chamber):

NOTE: COMPLETION OF INFORMATION IN SHADED AREA OF THIS FORM IS OPTIONAL

CONTROL EQUIPMENT - CYCLONE/SETTLING CHAMBERS -- Form 2000-404

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each control device used to reduce air pollution emissions. If you are using more than one settling chamber in parallel, you must answer items 10 and 13 - 18 for each individual chamber. Use form 2000-700 for this purpose.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code for the stack exhausting to this device. Use the same code used on form 2000-200.

Item 4 Provide the identification code from the appropriate form(s) 2000-300, -301, -302, -303, -304, -305, -306, or -307 completed for the emissions unit(s) that will have its ssions reduced by this control equipment.

Item 5 Assign an identification code to this control device (e.g., C001). Use this code when referring to this device throughout the rest of your application.

Item 6 Indicate the equipment manufacturer and its model number.

Item 7 Provide the date this device was first placed in service and the date of the last modification that may have affected air pollutant emissions.

Item 8 Describe the device indicating whether it is a cyclone, multicyclone, or a gravity settling chamber. Include information on the inlet (whether top, axial, or bottom), type of y (tangential, helical, etc.), the dust discharge system, hopper design, type of gas outlet, and any other relevant information. Attach a diagram of the device which clearly shows all ipment parts necessary for successful operation. Manufacturer's literature may be used. Attach extra information on form 2000-700.

Item 9 For each pollutant controlled, enter the inlet pollutant concentration and outlet pollutant concentration (use the same units), and the overall efficiency of the control device. must provide **either** the outlet pollutant concentration **or** control efficiency. YOU MUST DOCUMENT all data by stack test, manufacturer-supplied guarantees, or by other means roved by the Division. Indicate that data is attached.

Item 10 Give the pressure drop across the device (in inches of water).

Item 11 Discuss how collected material will be contained, transported, and ultimately disposed of. Examples of ultimate disposal include the local wastewater treatment plant or lfill. Describe any waste recycling or reuse.

Item 12 Prepare a malfunction prevention and abatement plan. Please be as detailed as possible. While it is not necessary to submit this plan with the permit application, the sion may at any time request a copy of this plan from the facility.

Section B - Reporting of the information for Section B is optional at this time. This section must be completed by sources installing new equipment or by existing sources which cannot otherwise document the control efficiency of this device (such as with current stack test results). IF YOU HAVE ALREADY SUBSTANTIATED THE CONTROL EFFICIENCY OF THE DEVICE AT ITEM 9 ABOVE, YOU DO NOT NEED TO COMPLETE SECTION B.

Item 13 For cyclones, give the following dimensions for your cyclone: D_c = body diameter, L_c = body length, Z_c = cone length, tube diameter, S_c = length of exit tube in cyclone, H_c = inlet height, and B_c = inlet width. These dimensions can be used to verify efficiency claims. For gravity settling chambers, length L, the height H, and the width B, of the device. For cyclones of alternative design, provide a diagram labeling the dimensions of analogous parts.

Item 14 Give the gas flow rate at the inlet of the device (in actual cubic feet per minute).

Item 15 Give the velocity of the gas at the inlet (in feet per second).

Item 16 Give the average temperature of the inlet gas stream (in degrees F).

Item 17 Provide the mean particle diameter (in microns) of the dust this device is expected to collect. calculate it from experimental data or obtain it from the literature. Attach ons or documentation.

Item 18 Give the density of the particles (in pounds per cubic foot) this device is expected to You can calculate it from experimental data or obtain it from the literature. alculations or documentation.

Item 19 Give the number of turns for the cyclone. (This is an important design variable and should of the manufacturer's literature.) Show documentation. For gravity settling chambers, give the number of parallel chambers.

Operating Permit Application

CONTROL EQUIPMENT - ELECTROSTATIC PRECIPITATORS FORM 2000-405

Colorado Department of Public Health and Environment

Rev 06-95

Air Pollution Control Division

SEE INSTRUCTIONS ON REVERSE SIDE

Section A

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	4. Unit identification code:
5. Control device code:	
6. Manufacturer and model number:	
7. Date first placed in service:	Date last modified:
8. Describe the precipitator. Attach a diagram of the system.	

9. In the table below list the pollutants to be controlled by this equipment and the expected control efficiency for each pollutant. Documentation attached **EITHER the outlet pollutant concentration OR the control efficiency must be provided.**

Pollutant	Emission Capture Efficiency	Inlet pollutant concentration		Outlet pollutant concentration		Control Efficiency
	%	gr/acf	ppmv	gr/acf	ppmv	%

10. Discuss how the collected material will be handled for reuse or disposal.

11. List the important design parameters of this device and their normal operating range (e.g., primary/secondary voltage and current, spark rate of each field, hot/cold side gas conditioning, cleaning schedules, etc.).

12. Prepare a malfunction prevention and abatement plan for this pollution control system. The plan does not have to be submitted with the application. It is suggested the plan include, but not be limited to the following:

a. Identification of the individuals(s), by title, responsible for inspecting, maintaining and repairing this device.

b. Operation variables that will be monitored in order to detect a malfunction or breakthrough, the correct operating range of these variables, and a detailed description of monitoring or surveillance procedures that will be used to show compliance.

c. Cleaning method (mechanical rapping, magnetic impulse rappers, water sprays, etc.).

d. An inspection schedule and items or conditions that will be inspected.

e. Where is this plan available for review?

Section B

The following questions must be answered by sources installing new equipment or existing Units which cannot document control efficiency of this device by other means.

13. Length, width and height of fields or tube diameter and length (ft):	14. Design particle migration velocity (ft/sec):
15. Collection area (ft^2):	16. Number of fields:
17. Inlet gas pretreatment if applicable:	18. Number and rating of transformer/rectifier sets (kilovolts and milliamperes):
19. Liquid flow rate for wet precipitators (gal/min):	20. Exhaust gas flow rate (acf/sec):

NOTE: COMPLETION OF INFORMATION IN SHADED AREA OF THIS FORM IS OPTIONAL

CONTROL EQUIPMENT - ELECTROSTATIC PRECIPITATOR -- Form 2000-405

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each control device used to reduce air pollution emissions.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code for the stack exhausting to this device. Use the same code used on form 2000-200.

Item 4 Provide the identification code from the appropriate form(s) 2000-300, -301, -302, -303, -304, -305, -306, or -307 completed for the emissions t(s) that will have its emissions reduced by this control equipment.

Item 5 Assign an identification code to this control device (e.g., C001). Use this code when referring to this device throughout the rest of your application.

Item 6 Indicate the equipment manufacturer and its model number.

Item 7 Provide the date this device was first placed in service and the date of the last modification that may have affected air pollutant emissions.

Item 8 Describe the device indicating if it is single-stage, two-stage, or tubular, etc. Discuss the method of gas flow distribution, and any other relevant ɔrmation. Attach a diagram of the device that clearly shows all equipment parts necessary for successful operation. Manufacturer's literature may be used. ach extra information on form 2000-700.

Item 9 For each pollutant controlled, enter the inlet pollutant concentration and outlet pollutant concentration (use the same units), and the overall ciency of the control device. You must provide **either** the outlet pollutant concentration **or** the control efficiency. YOU MUST DOCUMENT all data by ck test, manufacturer-supplied guarantees, or by other means approved by the Division. Indicate that data is attached.

Item 10 Discuss how collected material will be contained, transported, and the utimate disposal. Examples of ultimate disposal include the local wastewater ıtment plant or landfill. Describe any waste recycling or reuse.

Item 11 Give the primary and secondary operating voltage, current, spark rate of each field, any gas conditioning, cleaning schedule, etc.

Item 12 Prepare a malfunction prevention and abatement plan. Please be as detailed as possible, k. While it is not necessary to submit this plan with the mit application, the Division may at any time request a copy of this plan from the facility.

Section B - This section must be completed by sources installing new equipment or by existing sources which cannot otherwise document the control efficiency of this device (such as with current stack test results). IF YOU HAVE ALREADY SUBSTANTIATED THE CONTROL EFFICIENCY OF THE DEVICE AT ITEM 9 ABOVE, YOU DO NOT NEED TO COMPLETE SECTION B.

Item 13 Give the length L, width W, and height H, of each field (in feet). The width is the distance between the collection plates. For tubular precipitators, e the diameter D and the length L of the tube.

Item 14 Provide the particle migration velocity (in feet per second). You can obtain this from manufacturer's specifications or calculate it mathematically. ɔw all calculations or document specifications.

Item 15 Give the effective collecting plate area of the precipitator (in square feet). This is the sum of the areas of all plate surfaces where particles are lected.

Item 16 Indicate the number of fields in the ESP. This is the number of individual sections installed in the device. Each field has a separate power supply l controls to adjust for varying gas conditions.

Item 17 If inlet gas is treated to control conductivity, describe the pretreatment process.

Item 18 List the number of transformer-rectifier sets and their ratings (in Kilovolts and milliamperes or in kVA).

Item 19 If this is a wet precipitator, give the inlet liquid flow rate (in gallons per minute).

Item 20 Give the exhaust gas flow rate (in actual cubic feet of gas per second).

SEE INSTRUCTIONS ON REVERSE SIDE

Section A

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	4. Unit identification code:
5. Control device code:	

6. Manufacturer and model number:

7. Date unit first placed in service: Date last modified:

8. Describe the wet collection system. Attach a diagram of the system.

9. In the table below list the pollutants to be controlled by this equipment and the expected control efficiency for each pollutant. Documentation attached **EITHER the outlet pollutant concentration OR the control efficiency must be provided.**

Pollutant	Inlet pollutant concentration		Outlet pollutant concentration		Control Efficiency (%)	
	gr/acf	ppmv	gr/acf	ppmv	Emission Capture	Pollutant Removal

10. Discuss how the collected material will be handled for reuse or disposal.

11. Prepare a malfunction prevention and abatement plan for this pollution control system. The plan does not have to be submitted with the application. It is suggested the plan include, but not be limited to the following:
a. Identification of the individuals(s), by title, responsible for inspecting, maintaining and repairing this device.
b. Operation variables that will be monitored in order to detect a malfunction or breakthrough, the correct operating range of these variables, and a detailed description of monitoring or surveillance procedures that will be used to show compliance.
c. An inspection schedule and items or conditions that will be inspected.
d. Where is this plan available for review?

Section B

The following questions must be answered by sources installing new equipment or existing Units which cannot document control efficiency of this device by other means.

12. Liquid flow rate (gal/min):	13. Pressure drop across the scrubber and demister (inches of H_2O):
14. Inlet gas flow rate (ACFM):	15. Inlet gas temperature (°F):
16. Scrubbing medium (water, sodium hydroxide slurry, etc.):	17. Liquid inlet pressure (psi):

18. For Venturi Scrubbers, inlet throat gas pressure differential and units:

NOTE: COMPLETION OF INFORMATION IN SHADED AREA OF THIS FORM IS OPTIONAL

CONTROL EQUIPMENT - WET COLLECTION SYSTEMS -- Form 2000-406

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each control device used to reduce air pollution emissions.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code for the stack exhausting to this device. Use the same code used on form 2000-200.

Item 4 Provide the identification code from the appropriate form(s) 2000-300, -301, -302, -303, -304, -305, -306, or -307 completed for the emissions unit(s) that will have its emissions reduced by control equipment.

Item 5 Assign an identification code to this control device (e.g., C001). Use this code when referring to this device throughout the rest of your application.

Item 6 Indicate the equipment manufacturer and its model number.

Item 7 Provide the date the device was first placed in service and the date of the last modification that may have affected the air pollutant emissions.

Item 8 Give a description of the wet collection system used. Include information on specific type of scrubber (venturi, orifice, impingement plate), the scrubbing medium distribution system, the elimination system, nozzle or plate types, air flow direction, and any other relevant information. Show any calculations. Attach a diagram of the system. Manufacturer's literature may be used. ch extra information on form 2000-700.

Item 9 For each pollutant controlled, enter the inlet pollutant concentration and outlet pollutant concentration (use the same units), and the overall efficiency of the control device. You must vide **either** the outlet pollutant concentration **or** the control efficiency. YOU MUST DOCUMENT all data by stack test, manufacturer-supplied guarantees, or by other means approved by the ision. Indicate that data is attached.

Item 10 Discuss how collected material will be contained, transported, and ultimately disposed of. Examples of ultimate disposal include the local wastewater treatment plant or landfill. Describe waste recycling or reuse.

Item 11 Prepare a malfunction prevention and abatement plan. Please be as detailed as possible. While it is not necessary to submit this plan with the permit application, the Division may at any request a copy of this plan from the facility.

Section B - This section must be completed by sources installing new equipment or by existing sources which cannot otherwise document the control efficiency of this device (such as with current stack test results). IF YOU HAVE ALREADY SUBSTANTIATED THE CONTROL EFFICIENCY OF THE DEVICE AT ITEM 9 ABOVE, YOU DO NOT NEED TO COMPLETE SECTION B.

Item 12 Give the liquid flow rate (in gallons per minute).

Item 13 Give the operating pressure drop range across the scrubber and the demister (in inches of water).

Item 14 Give the gas flow rate at the scrubber inlet (in actual cubic feet per minute).

Item 15 Give the temperature of the inlet gas (in degrees F).

Item 16 Indicate the scrubbing medium used. If not water, give the composition of the scrubbing medium including concentrations or mole fractions, etc. Form 2000-700 may be used for this pose.

Item 17 Indicate the liquid inlet pressure (in pounds per square inch).

Item 18 For a venturi type scrubber, enter the inlet throat gas pressure differential. Include the appropriate units of measure.

SEE INSTRUCTIONS ON REVERSE SIDE

Section A

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	4. Unit identification code:
5. Control device code:	

6. Manufacturer and model number:

7. Date first placed in service: Date last modified:

8. Describe the filtering system used. Attach a diagram of the system.

9. In the table below list the pollutants to be controlled by this equipment and the expected control efficiency for each pollutant. Documentation attached **EITHER the outlet pollutant concentration OR the control efficiency must be provided.**

Pollutant	Inlet pollutant concentration	Outlet pollutant concentration	Efficiency (%)	
	gr/acf	gr/acf	Emission Capture	Pollutant Removal

10. Range of pressure drop across the filter (clean and dirty) (inches of H_2O):

11. Discuss how the collected material will be handled for reuse or disposal.

12. Prepare a malfunction prevention and abatement plan for this pollution control system. The plan does not have to be submitted with the application. It is suggested the plan include, but not be limited to the following:
a. Identification of the individuals(s), by title, responsible for inspecting, maintaining and repairing this device.
b. Bag cleaning techniques and frequency of cleaning or replacement schedule for filters.
c. Operation variables that will be monitored in order to detect a malfunction or breakthrough, the correct operating range of these variables, and a detailed description of monitoring or surveillance procedures that will be used to show compliance.
d. An inspection schedule and items or conditions that will be inspected.
e. Where is this plan available for review?

Section B

The following questions must be answered by sources installing new equipment or existing Units which cannot document control efficiency of this device by other means.

13. Filter medium or type of fabric material (if fabric, indicate whether felt or woven; if coated, frequency of coating):

14. Maximum inlet gas flow rate (ACFM):	15. Maximum inlet gas temperature (°F):
16. Number of bags if applicable:	17. Dimensions of bags/filters:

18. Air to cloth ratio (acfm/ft^2):

NOTE: COMPLETION OF INFORMATION IN SHADED AREA OF THIS FORM IS OPTIONAL

CONTROL EQUIPMENT - BAGHOUSE/FABRIC FILTERS -- Form 2000-407

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each control device used to reduce air pollution emissions.

Item 1 Provide the name of the facility.
Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code for the stack exhausting to this device. Use the same code used on form 2000-200.

Item 4 Provide the identification code from the appropriate form(s) 2000-300, -301, -302, -303, -304, -305, -306, or -307 completed for the emissions t(s) that will have its emissions reduced by this control equipment.

Item 5 Assign an identification code to this control device (e.g., C001). Use this code when referring to this device throughout the rest of your application.

Item 6 Indicate the equipment manufacturer and its model number.

Item 7 Provide the date this device was first placed in service and the date of the last modification that may have affected the air pollutant emissions.

Item 8 Describe the filtering system, including any relevant design information. Attach a diagram of the device that clearly shows all equipment parts essary for successful operation. Manufacturer's literature may be used. Attach extra information on form 2000-700.

Item 9 For each pollutant controlled, enter the inlet pollutant concentration and outlet pollutant concentration (use the same units), and the overall ciency of the control device. You must provide **either** the outlet pollutant concentration **or** the control efficiency. YOU MUST DOCUMENT all data by ck test, manufacturer-supplied guarantees, or by other means approved by the Division. Indicate that data is attached.

Item 10 Discuss how collected material will be contained, transported, and ultimately disposed of. Examples of ultimate disposal include the local stewater treatment plant or landfill. Describe any waste recycling or reuse.

Item 11 Give the pressure drop range across the device (in inches of water). Enter the ranges for both clean and dirty bag material.

Item 12 Prepare a malfunction prevention and abatement plan. Please be as detailed as possible. While it is not necessary to submit this plan with the mit application, the Division may at any time request a copy of this plan from the facility.

Section B - This section must be completed by sources installing new equipment or by existing sources which cannot otherwise document the control efficiency of this device (such as with current stack test results). IF YOU HAVE ALREADY SUBSTANTIATED THE CONTROL EFFICIENCY OF THE DEVICE AT ITEM 9 ABOVE, YOU DO NOT NEED TO COMPLETE SECTION B.

Item 13 Give the filter medium or the type of fabric used for the bags. If the bag material is coated, identify the coating used and the frequency for coating plication.

Item 14 Give the maximum inlet flow rate of the gas (in actual cubic feet per minute).

Item 15 Indicate the maximum temperature of the inlet gas (in degrees F).

Item 16 For baghouses, indicate the number of bags in your device. Enter "NA" if using filters.

Item 17 Give the diameter D and length L of each bag, or the length L and height H of each filter.

Item 18 Air to cloth ratio is the ratio of the total area of the filtering media to the gas filtered.

COMPLIANCE CERTIFICATION - MONITORING AND REPORTING
DESCRIPTION OF METHODS USED
FOR DETERMINING COMPLIANCE

All applicants are required to certify compliance with all applicable air pollution permit requirements by including a statement within the permit application of the methods used for determining compliance. This statement must include a description of the monitoring, recordkeeping, and reporting requirements and test methods. In addition, the application must include a schedule for compliance certification submittals during the permit term. These submittals must be no less frequent than annually, and may need to be more frequent if specified by the underlying applicable requirement or by the Division.

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	4. Unit identification code:

5. For this Unit the following method(s) for determining compliance with the requirements of the permit will be used (check all that apply and attach the appropriate form(s) to this form).

Continuous Emission Monitoring (CEM) - Form 2000-501
Pollutant(s):

Periodic Emission Monitoring Using Portable Monitors - Form 2000-502
Pollutant(s):

Monitoring Control System Parameters or Operating Parameters of a Process - Form 2000-503
Pollutant(s):

Monitoring Maintenance Procedures - Form 2000-504
Pollutant(s):

Stack Testing - Form 2000-505
Pollutant(s):

Fuel Sampling and Analysis (FSA) - Form 2000-506
Pollutant(s):

Recordkeeping - Form 2000-507
Pollutant(s):

Other (please describe) - Form 2000-508
Pollutant(s):

6. Compliance <u>certification</u> reports will be submitted to the Division according to the following schedule:

Start date:
and every _____ months thereafter. (12 month maximum interval)

Compliance <u>monitoring</u> reports will be submitted to the Division according to the following schedule:

Start date:
and every _____ months thereafter. (6 month maximum interval)

NOTE: EACH APPLICABLE REQUIREMENT ON FORM 2000-604 NEEDS TO BE SPECIFICALLY ADDRESSED IN ITEM 5.

COMPLIANCE CERTIFICATION - MONITORING AND REPORTING
DESCRIPTION OF METHODS USED FOR DETERMINING COMPLIANCE -- Form 2000-500
AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. Use of this form is required for all operating permits. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

One form should be completed for each significant emissions unit being monitored.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code of the stack that is associated with the process being monitored. Use the same code used on form 2000-200.

Item 4 Provide the identification code from the appropriate form 2000-300, -301, -302, -303, -304, -305, -306, or -307 completed for the emissions unit that will have its emissions monitored.

Item 5 Choose the type(s) of monitoring you want to use to demonstrate compliance with the emission limits for this emissions unit. Complete and attach the form(s) associated with the monitoring method(s) you select. Any of the methods listed on the form may be used for more than one pollutant. Identify each pollutant to be monitored by each monitoring technique.

Item 6 For the emissions unit identified at Item 4 above, specify the start dates and schedules of the compliance *certification* reports and the compliance *monitoring* reports to be submitted to the Division during the term of the permit.

The compliance *certification* reports must be submitted to the Division no less frequently than once per year. Please note that these reports may need to be submitted more than once a year if specified by the underlying applicable requirement or otherwise specified by the Division. The certification reports must include the following information:

Identification of each permit term or condition that is the basis of the compliance certification

The compliance status of this particular emissions unit with respect to each permit term or condition

Information on whether compliance was continuous or intermittent

The methods used for determining the compliance status of the emissions unit, currently and over the previous 12-month period

Any other information the Division may require, as specified in the operating permit, to determine the compliance status of this particular emissions unit

The compliance *monitoring* reports, which include the results of monitoring required by the permit, must be submitted to the Division no less frequently than once every six months. Please note that these reports may need to be submitted more than twice a year if specified by the underlying applicable requirement or otherwise specified by the Division. A summary of the monitoring results may be submitted to the Division. The summary must include sufficient data for the Division to determine whether this particular emissions unit is in compliance with the applicable requirements to which the monitoring relates.

*****Please note that all deviations from and violations of applicable requirements must be clearly identified in the monitoring results reports. *****

COMPLIANCE DEMONSTRATION BY CONTINUOUS EMISSION MONITORING

FORM 2000-501
Rev 06-95

An installation plan for each new (i.e., proposed) Continuous Emission Monitoring (CEM) system shall be submitted with the permit application for Division approval. Installation plans for existing CEMs are not required to be submitted with the permit application. The installation plan shall contain the following information: the name and address of the source; the source facility identification code; a general description of the process and the control equipment; the pollutant or diluent being monitored; the manufacturer, model number, and serial number of each analyzer; the operating principles of each analyzer; a schematic of the CEM system showing the sample acquisition point and the location of the monitors; and an explanation of any deviations from the siting criteria in Performance Specifications 1,2,3,4,5,6 and 7 in 40 CFR part 60, Appendix B.

SEE INSTRUCTIONS ON REVERSE SIDE

1.	Facility name:	2.	Facility identification code: CO _ _ _ _ _ _ _
3.	Stack identification code:	4.	Unit identification code:

5. Pollutant being monitored: (If other than opacity then item 6 or 7 will be required)

a.	Name of manufacturer:	b.	Model & serial number:
c.	Is this an existing system Yes No	d.	Implementation date:

e. Type In situ Extractive Dilution Other (specify)

f. Very briefly explain the measurement design concept of the monitor:

g. Backup system:

h. The CEM system was certified by the Division on _____. The CEM system is not certified, but the certificat ion package was submitted to the Division on _____. The certification will be submitted to the Division by the date shown in our monitoring/compliance plan.

i. A CEM system Quality Assurance/Quality Control Plan is attached for Division review. The plan is not attached but will be submitted to the Division by _____. The plan will be submitted to the Division by the date shown in our monitoring/compliance plan.

6. Diluent being monitored:

a.	Name of manufacturer:	b.	Model & serial number:
c.	Is this an existing system Yes No	d.	Date first placed in service:

e. Type In situ Extractive O2 CO2 Other (specify)

f. Describe how the monitor works:

g. Backup system:

h. The CEM system was certified by the Division on _____. The CEM system is not certified, but the certification package was submitted to the Division on _____. The certification will be submitted to the Division by the date shown in our monitoring/compliance plan.

i. A CEM system Quality Assurance/Quality Control Plan is attached for Division review. The plan is not attached but will be submitted to the Division by _____. The plan will be submitted to the Division by the date shown in our monitoring/compliance plan.

7. Stack Gas Flow:

a.	Name of manufacturer:	b.	Model & serial number:
c.	Is this an existing system Yes No	d.	Date first placed in service:

e. Type Differential pressure Thermal Other (specify)

f. Describe how the monitor works:

g. Backup system:

h. The CEM system was certified by the Division on _____. The CEM system is not certified, but the certification package was submitted to the Division on _____. The certification will be submitted to the Division by the date shown in our monitoring/compliance plan.

i. A CEM system Quality Assurance/Quality Control Plan is attached for Division review. The plan is not attached but will be submitted to the Division by _____. The plan will be submitted to the Division by the date shown in our monitoring/compliance plan.

COMPLIANCE DEMONSTRATION BY CONTINUOUS EMISSION MONITORING -- Form 2000-501

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each significant emissions unit being monitored. Acid rain sources must complete items 5, 6, and 7. Other sources will complete item 5 and either item 6 or item 7, as appropriate to the source's emission limit.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code of the stack that exhausts this equipment. Use the same code used on form 2000-200.

Item 4 Provide the identification code from the appropriate form(s) 2000-300, -301, -302, -303, -304, -305, -306, or -307 completed for the emissions unit that will have its emissions monitored.

Item 5 Identify the pollutants being monitored for this emissions unit. Use one form for each pollutant. Pollutants may include SO_2, NO_x, opacity, etc. See instructions below for 5a -i.

Item 6 Identify diluents being monitored for this emissions unit. This information is not required for opacity CEMs. See instructions below for 6a - i.

Item 7 Provide the stack gas flow (in dry standard cubic feet). This information is not required for opacity CEMs. See instructions below for 7a - i.

Items 5-7a - i.

Fill out the following information for items 5, 6 and 7:

a. List the name of the monitor manufacturer.
b. List the model and serial number of the monitor.
c. Indicate if this monitor has been previously used for demonstrating compliance for this emissions unit, by checking the appropriate box.
d. Give the date the procedure was first implemented. If this is a new monitor, list the date it will be installed.
e. Indicate the type of monitor. If "other," give the type.
f. Briefly explain how the monitor makes the measurement(s). Form 2000-700 may be attached for this purpose.
g. Describe how emission data will be collected if the monitor fails.
h. The CEM system must be certified. For existing CEM systems you must submit this certification to the Division with this permit application. For a system not yet in service, please submit the certification within 60 days following the startup of the CEM system. If the certification has already been submitted to APCD, it is not necessary to submit it again. Please indicate the approximate date of submittal.
i. You must submit a CEM system Quality Assurance/Quality Control (QA/QC) Plan. For existing CEM systems the QA/QC plan must be submitted with the application. For a system not yet in service, the QA/QC plan, please submit the QA/QC plan within 60 days following the startup of the CEM system. If the plan has already been submitted to APCD, it is not necessary to submit it again. Please indicate the approximate date of submittal.

COMPLIANCE DEMONSTRATION BY PERIODIC EMISSION MONITORING USING PORTABLE MONITORS

FORM 2000-502

Rev 06-95

The use of a portable continuous emission monitor (CEM) may be acceptable as a compliance demonstration method. A monitoring plan shall contain the following information: the name and address of the source; the source facility identification code; a general description of the process and the control equipment; the pollutant or diluent being monitored; the manufacturer, model number, and serial number of each portable monitor; the operating principles of each portable monitor; and a schematic of the CEM system showing the sample acquisition point and the location of the monitors while sampling.

SEE INSTRUCTIONS ON REVERSE SIDE

1.	Facility name:	2.	Facility identification code: CO _ _ _ _ _ _ _
3.	Stack identification code:	4.	Unit identification code:
5.	Pollutant(s) or diluent(s) being monitored:		
6.	Name of manufacturer:	7.	Model & serial number:
8.	Is this an existing system? Yes No	9.	Official use only
10.	Type: In situ Extractive Dilution Other (specify)		
11.	Very briefly explain the measurement design concept of the monitor:		
12.	Backup system:		
13.	Compliance shall be demonstrated: Daily Weekly Monthly Other-specify		
14.	Quality Assurance/Quality Control: A quality assurance/quality control plan for the portable monitor is attached for Division review. The plan is not attached, but will be submitted to the Division by _____.		

***** Any test value over the emission limit shall be reported as an excess emission. *****

COMPLIANCE DEMONSTRATION BY PERIODIC EMISSION MONITORING
USING PORTABLE MONITORS -- Form 2000-502
AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each significant emissions unit being monitored.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code of the stack that exhausts this equipment. Use the same code used on form 2000-200.

Item 4 Provide the identification code from the appropriate form(s) 2000-300, -301, -302, -303, -304, -305, -306, or -307 completed for the emissions unit that will have its emissions monitored.

Item 5 Identify the pollutant(s) or diluent(s) being monitored for this emissions unit.

Item 6 List the name of the monitor manufacturer.

Item 7 List the model and serial number of the monitor.

Item 8 Indicate if this monitor has been previously used for demonstrating compliance for this emissions unit, by checking the appropriate box.

Item 9 Official use only

Item 10 Indicate the type of monitor. If "other," give the type.

Item 11 Briefly explain how the monitor makes the measurement(s). Form 2000-700 may be attached for this purpose.

Item 12 Describe how emission data will be collected if the monitor fails.

Item 13 Indicate the frequency with which compliance will be demonstrated. Form 2000-700 may be used to provide additional explanation.

Item 14 You must submit a portable monitoring system Quality Assurance/Quality Control (QA/QC) Plan. If the portable monitoring system is in service, submit the QA/QC plan with the application. If the system will be placed in service later, please submit the QA/QC plan within 60 days following the startup of the system. If the plan has already been submitted to APCD, it is not necessary to submit it again. Please indicate the approximate date of submittal.

***** You must report any excess emissions on a regular basis. *****
Please refer to the Division's compliance program guidance for further details.

COMPLIANCE DEMONSTRATION BY MONITORING CONTROL SYSTEM PARAMETERS OR OPERATING PARAMETERS OF A PROCESS

FORM 2000-503
Rev 06-95

The monitoring of a control system parameter or a process may be acceptable as a compliance demonstration method provided that a correlation between the parameter value and the emission rate of a particular pollutant is established in the form of a curve of emission rate versus parameter values. Ideally stack test data that bracket the emission limit, if possible, could be used to define the emission curve. This correlation shall constitute the certification of the system. It should be attached for Division approval. If it is not attached, please submit it within 60 days of the startup of the system.

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	4. Unit identification code:
5. Pollutant(s) being monitored:	
6. Name of manufacturer:	7. Model number:
8. Is this an existing system? Yes No	9. Reserved for future use

10. Describe the method of monitoring:

11. Backup system:

12. Quality Assurance/Quality Control:

Any monitoring system used with the record keeping shall be subject to appropriate performance specifications, calibration requirements and quality assurance procedures.

A quality assurance/quality control plan for the monitoring system is attached for Division review.
The plan is not attached, but will be submitted to the Division by _____.

13. The applicant shall propose an appropriate averaging period, (i.e., a particular number of continuous hours) for the purpose of defining excess emissions. The Division may approve the proposed averaging period, or other period which the Division determines to be appropriate. Provide the proposed averaging period(s) below.

Parameter	Averaging Period

COMPLIANCE DEMONSTRATION BY MONITORING CONTROL SYSTEM PARAMETERS OR OPERATING PARAMETERS OF A PROCESS -- Form 2000-503

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each significant emissions unit being monitored.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code of the stack that exhausts this equipment. Use the same code used on form 2000-200.

Item 4 Provide the identification code from the appropriate form(s) 2000-300, -301, -302, -303, -304, -305, -306, or -307 completed for the emissions unit that will have its emissions monitored.

Item 5 Identify the pollutant(s) being monitored for this emissions unit.

Item 6 List the name of the monitor manufacturer.

Item 7 List the model number of the monitor.

Item 8 Indicate if this monitor has been previously used for demonstrating compliance for this emissions unit, by checking the appropriate box.

Item 9 Reserved for future use.

Item 10 List all parameters used and explain why selected. Typical parameters are pressure drop, operating temperature, pressure, volume of device, volumetric flow rate of dirty gas, etc. Indicate the operating range of all parameters and the units (psia, ^{o}F, ft^{3}, ACFM, etc.). Show any calculations. Explain how these will demonstrate compliance.

Describe how the parameter is being measured. Form 2000-700 may be used to provide this explanation. For example, you could indicate that an average value for the parameter shall be determined and recorded every 15 minutes.

Item 11 Describe how parameter data will be collected if this method fails.

Item 12 You must submit a parameter monitoring system Quality Assurance/Quality Control (QA/QC) Plan. If the monitoring system is in service, submit the plan with the application. If the monitoring system is not yet in service, please submit the QA/QC plan within 60 days following the startup of the system. If the plan has already been submitted to APCD, it is not necessary to submit it again. Please indicate the approximate date of submittal.

Item 13 Provide the details of the proposed averaging period for defining excess emissions. Each parameter used to characterize the control system or process must have an appropriate (i.e., approved by the Division) averaging period. For example, you could indicate that any 3-hour rolling average outside of the normal 3"- 6" range of pressure drop across the baghouse shall be reported as an excess emission.

***** You must report any excess emissions on a regular basis. *****
Please refer to the Division's compliance program guidance for further details.

COMPLIANCE DEMONSTRATION BY MONITORING MAINTENANCE PROCEDURES

FORM 2000-504
Rev 06-95

The monitoring of a maintenance procedure may be acceptable as a compliance demonstration method provided a correlation between the procedure and the emission rate of a particular pollutant is established. VOC leak detection programs or fugitive dust control programs are examples of procedures that could be monitored. The correlation shall be established using test data. This correlation shall constitute the certification of the monitoring system. It should be attached for Division approval. If it is not attached, please submit it within 60 days of the startup of the monitoring program.

SEE INSTRUCTIONS ON REVERSE SIDE

1.	Facility name:	2.	Facility identification code: CO _ _ _ _ _ _ _
3.	Stack identification code:	4.	Unit identification code:
5.	Pollutant(s) being monitored:		
6.	Procedure being monitored:		
7.	Is this an existing maintenance procedure? Yes No	8.	Implementation date:
9.	Describe the method of monitoring:		
10.	Compliance shall be demonstrated: Daily Weekly Monthly Other - specify		
11.	Quality Assurance/Quality Control:		

The monitoring program shall be subject to appropriate performance specifications, calibration requirements, and quality assurance procedures.

A quality assurance/quality control plan for the monitoring program is attached for Division review.
The plan is not attached, but will be submitted to the Division by _____.

***** Any failure to fulfill a maintenance requirement shall be reported as an excess emission. *****

COMPLIANCE DEMONSTRATION BY MONITORING
MAINTENANCE PROCEDURES -- Form 2000-504
AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each significant emissions unit being monitored.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code of the stack that exhausts this equipment. Use the same code used on form 2000-200.

Item 4 Provide the identification code from the appropriate form(s) 2000-300, -301, -302, -303, -304, -305, -306, or -307 completed for the emissions unit that will have its emissions monitored.

Item 5 Identify the pollutant(s) being monitored for this emissions unit.

Item 6 Name the maintenance procedure being monitored. Use form 2000-700 for additional explanation.

Item 7 Indicate if this procedure has been previously used for demonstrating compliance for this emissions unit, by checking the appropriate box.

Item 8 Give the date the monitoring began. If this is a new procedure, list the date it will be started.

Item 9 Describe how the maintenance procedure is being monitored. This description can be, for example, a discussion of plant activities prescribed for proper maintenance of process equipment or air pollution control equipment.

Item 10 Indicate the frequency with which compliance will be demonstrated. Form 2000-700 may be used to provide additional explanation. The frequency with which the maintenance procedure is performed is related to the compliance status. If the maintenance procedure is performed daily, then the compliance status is certified daily.

Item 11 You must submit a maintenance procedure monitoring program Quality Assurance/Quality Control (QA/QC) Plan. If the program is in service, submit the QA/QC plan with the application. If the program is not yet in service, please submit the QA/QC plan within 60 days following the startup of the program. If the plan has already been submitted to APCD, it is not necessary to submit it again. Please indicate the approximate date of submittal.

The proposed maintenance procedure monitoring program should also define excess emissions. For example, excess emissions may be defined in terms of whether the required maintenance is actually performed. That is, if the required maintenance procedures are not performed, a period of excess emissions results.

***** You must report any excess emissions on a regular basis. *****
Please refer to the Division's compliance program guidance for further details.

COMPLIANCE DEMONSTRATION BY STACK TESTING

FORM 2000-505

09-94

The performance of an EPA stack test method is acceptable for demonstrating compliance with an emission limitation. EPA test methods contain quality assurance procedures that shall be strictly adhered to by the source. The applicant shall propose an appropriate program of stack testing for compliance demonstration. The stack testing program shall correlate with the corresponding emission limitation in terms of the frequency and duration of the stack tests. The Division may approve the proposed stack testing program, or other programs which the Division determines to be appropriate.

SEE INSTRUCTIONS ON REVERSE SIDE

1.	Facility name:	2.	Facility identification code: CO _ _ _ _ _ _ _
3.	Stack identification code:	4.	Unit identification code:
5.	Pollutant being monitored:		
6.	Procedure being monitored:		
7.	Is this an existing method of demonstrating compliance? Yes No	8.	Program start date:
9.	EPA or Division approved test method:		
10.	Backup system		
11.	Compliance shall be demonstrated: Daily Weekly Monthly Other - specify		

***** Any measured emission rate that exceeds an emission limitation established by the permit shall be reported as an excess emission. *****

COMPLIANCE DEMONSTRATION BY STACK TESTING -- Form 2000-505
AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Use "NA" where necessary to identify an information request that does not apply.

Complete one form for each significant emissions unit being monitored.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code of the stack that exhausts this equipment. Use the same code used on form 2000-200.

Item 4 Provide the identification code from the appropriate form(s) 2000-300, -301, -302, -303, -304, -305, -306, or -307 completed for the emissions unit that will have its emissions monitored.

Item 5 Identify the pollutant being monitored for this emissions unit.

Item 6 List the procedure being monitored. If you plan to use stack testing to periodically verify the accuracy of some other method you are using to continuously demonstrate compliance, then the "other method" is the procedure being monitored by the stack testing program. Form 2000-700 may be used for additional explanation.

Item 7 Indicate if this method has been previously used for demonstrating compliance for this emissions unit, by checking the appropriate box.

Item 8 Give the date the stack testing program was started. If this is a new method, list the date the stack testing program will be started. A stack testing program starts on the date the Division approves a proposed program of appropriately frequent stack testing for compliance demonstration.

Item 9 Identify the EPA- or Division-approved stack test method being used.

Item 10 Describe how emissions data will be collected if the source fails to perform the stack testing.

Item 11 Indicate the frequency with which compliance will be demonstrated. Form 2000-700 may be used to provide additional explanation. The frequency with which the stack test procedure is performed is related to the compliance status. If the stack test procedure is performed daily, then the compliance status is certified daily, and so on. There are EPA audit samples available for Methods 3, 3A, 6, 7, 11, 15, 18, 23, 25, 26, 101, 101A, 0030, 0010, 0012 and many gases.

***** You must report any excess emissions on a regular basis. *****
Please refer to the Division's compliance program guidance for further details.

Operating Permit Application
Colorado Department of Public Health and Environment
Air Pollution Control Division

COMPLIANCE DEMONSTRATION BY FUEL SAMPLING AND ANALYSIS

FORM 2000-506
Rev 06-95

SEE INSTRUCTIONS ON REVERSE SIDE

1.	Facility name:	2.	Facility identification code: CO _ _ _ _ _ _ _
3.	Stack identification code:	4.	Unit identification code:
5.	Pollutant being monitored:	6.	Fuel being sampled:

7. List the ASTM or EPA fuel sample collecting and analyzing methods used:

8.	Is this an existing FSA system? Yes No	9.	Implementation Date:

10. Automated sampling Manual sampling

11. Backup system?

12. Compliance shall be demonstrated: Daily Weekly Monthly Other - specify

13. Quality Assurance/Quality Control:

The FSA system certification is attached for Division review.
The FSA system is not certified, but the certification package was submitted to the Division on _____.
The FSA system certification will be submitted to the Division by the date shown in our monitoring/compliance plan.

A Quality Assurance/Quality Control plan for the fuel sampling program is attached for Division review.
The QA/QC plan is not attached, but will be submitted to the Division by _____.

14. Attach a schematic of the FSA system showing the sample acquisition point and the location of the machine that produces the daily, weekly, or monthly composite fuel sample.

***** Any composite sample over the emission limit shall be reported as an excess emission. *****

COMPLIANCE DEMONSTRATION BY FUEL SAMPLING AND ANALYSIS -- Form 2000-506

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each significant emissions unit being monitored.

Item 1Provide the name of the facility.

Item 2Provide the facility identification (FID) code.

Item 3 Provide the identification code of the stack that exhausts this equipment. Use the same code used on form 2000-200.

Item 4 Provide the identification code from the appropriate form(s) 2000-300, -301, -302, -303, -304, -305, -306, or -307 completed for the emissions unit that will have its emissions monitored.

Item 5 Identify the pollutant being monitored for this emissions unit.

Item 6 List the fuel being sampled.

Item 7 Briefly describe how the system works. List the American Society of Testing and Materials (ASTM) or Environmental Protection Agency (EPA) methods used. If you use methods or procedures that have been approved by the Division as being equivalent to the applicable ASTM method(s), or if you are proposing an equivalent method or procedure, please attach a brief explanation of the basis for equivalency. Form 2000-700 may be used for this purpose.

Item 8 Indicate if this method has been previously used for demonstrating compliance for this emissions unit, by checking the appropriate box.

Item 9 Give the date the fuel sampling/analysis program was or will be placed in operation.

Item 10 Indicate the type of sampling system.

Item 11 Describe how emission data will be collected if the source fails to do fuel sampling.

Item 12 Indicate the frequency with which compliance will be demonstrated. Form 2000-700 may be used to provide additional explanation. The frequency with which the procedure is performed is related to the compliance status. If the procedure is performed daily, then the compliance status is certified daily, and so on.

Item 13 The fuel sampling and analysis (FSA) system should be certified as to its precision and relative accuracy. Please submit this certification to the Division with this permit application. If the FSA system is not certified at the time of application, please submit the certification within 60 days following the startup of the FSA system. Please indicate the approximate date of submittal.

You must submit a fuel sampling and analysis (FSA) system Quality Assurance/Quality Control (QA/QC) Plan. For an existing system, submit the QA/QC plan with the application. For a system not yet in service, please submit the QA/QC plan within 60 days following the startup of the system. Please indicate the approximate date of submittal.

Item 14. A schematic representation of the FSA system is needed to identify the location and sequence of the devices in the system.

***** You must report any excess emissions on a regular basis. *****

Please refer to the Division's compliance program guidance for further details.

COMPLIANCE DEMONSTRATION BY RECORDKEEPING

FORM 2000-507
Rev 06-95

Recordkeeping may be acceptable as a compliance demonstration method provided that a correlation between the parameter value recorded and the emission rate of a particular pollutant is established in the form of a curve or chart of emission rate versus parameter values. This correlation may constitute the certification of the system. For an existing program, the correlation demonstration must be attached for Division consideration for approval. If the correlation information has not yet been developed, please submit it within 60 days of the startup of the system.

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	4. Unit identification code:
5. Pollutant(s) being monitored:	6. Material or parameter being monitored and recorded:

7. Method of monitoring and recording (see information on back of this page):

8. List any EPA methods used:

9. Is this an existing method of demonstrating compliance? Yes No	10. Start date:

11. Backup system:

12 a. Data collection frequency:
Daily Weekly Monthly Batch (not to exceed monthly) Other - specify

12 b. Compliance shall be demonstrated:
Daily Weekly Monthly Batch (not to exceed monthly) Other - specify

13. Quality Control/Quality Assurance:

The monitoring system shall be subject to appropriate performance specifications, calibration requirements, and quality assurance procedures.

A quality assurance/quality control plan for the recordkeeping system is attached for Division review.
The plan is not attached, but will be submitted to the Division by _____.

14. A proposed format for the compliance certification report and excess emission report is attached.

*****The compliance records shall be available for Division inspection.

*****The source shall record any malfunction that causes or may cause an emission limit to be exceeded. *****
Malfunctions shall be reported to the Division the next business day. Hazardous air releases shall be reported to the Division immediately.

COMPLIANCE DEMONSTRATION BY RECORDKEEPING -- Form 2000-507

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Complete one form for each significant emissions unit being monitored.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code of the stack that exhausts this equipment. Use the same code used on Form 2000-200.

Item 4 Provide the identification code from the appropriate form(s) 2000-300, -301, -302, -303, -304, -305, -306, or -307 completed for the emissions unit that will have its emissions monitored.

Item 5 Identify the pollutant(s) being monitored for this emissions unit.

Item 6 List the materials to be monitored and recorded, including inks, coatings, raw materials, etc. Parameters to monitor and record include temperature, fuel usage, pressure drop, etc.

Item 7 Describe what data will be monitored and recorded. Include the type of measurement device used (flow meter, gage, counter, invoices). Show example calculation(s). Describe how the raw information is measured and the sequential steps to go from the raw data to the emission estimation.

Item 8 List any EPA methods used such as methods 21, 24, or 24A.

Item 9 Indicate if this method has been previously used for demonstrating compliance for this emissions unit, by checking the appropriate box.

Item 10 Give the date the recordkeeping system was started. If this is a new system, list the date it will be started.

Item 11 Describe how emission data will be collected if the source fails to do recordkeeping.

Item 12 Indicate the frequency with which data will be collected and compliance will be demonstrated. Form 2000-700 may be used to provide additional explanation.

Item 13 You should submit a recordkeeping program Quality Assurance/Quality Control (QA/QC) Plan with this permit application. If the QA/QC plan is not submitted with the application, please submit the QA/QC plan within 60 days following the startup of the program. Please indicate the approximate date of submittal.

The proposed recordkeeping program should also define excess emissions. For example, excess emissions may be defined in terms of whether the required records suggest that emissions from the source have exceeded an emission limit. The duration of the period of (presumed) excess emissions would then relate to the nature of the records. Missing records or data may be considered a period of excess emissions.

The applicant may submit proposed formats for the compliance certification and excess emission reports along with the operating permit application. The formats for the compliance certification report and the excess emission report shall ultimately be approved (or disapproved) by the Division.

***** You must report any excess emissions on a regular basis. *****

Please refer to the Division's compliance program guidance for further details.

COMPLIANCE DEMONSTRATION BY OTHER METHODS

FORM 2000-508
Rev 06-95

1. Facility Name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	4. Unit Identification code:

5. Pollutant(s) or Parameter(s) being monitored:

6. Description of the method of monitoring:

7. Compliance shall be demonstrated: (Specify the frequency with which compliance will be demonstrated)

Operating Permit Application

EMISSION UNIT HAZARDOUS AIR POLLUTANTS

FORM 2000-600

Colorado Department of Public Health and Environment

Rev 06-95

Air Pollution Control Division

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	4. Unit identification code:

5. Unit material description:

6. Complete the following summary of hazardous air emissions from this unit. Attach all calculations and emission factor references.

Attached Actual Emissions Data is for calendar year 19

Pollutant CAS	Common or Generic Pollutant Name	Actual emissions		Allowable OR Potential to emit	
		Quantity	Measurement Units	Quantity	Measurement Units
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY

NOTE: If there is a permit for this unit, the permit limits are the same as the potential to emit.

EMISSION UNIT HAZARDOUS AIR POLLUTANTS -- Form 2000-600
AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Use one form for each of up to ten materials that release hazardous air emissions from the emission unit. Facilities using ten or more materials that release hazardous air pollutants may use this form to summarize the hazardous air emissions from the unit, as described below. Typical materials include, but are not limited to, fuels, inks, coatings, solvents, additives, cleaning solvents, and process raw materials. Hazardous air pollutants are defined under Colorado Regulation No. 8, Part A, and sec. 112, 1990 Clean Air Act Amendments (42 U.S.C. 7412).

Each emissions unit at the facility will have a group of forms 2000-600 (one for each of a small number of materials involved) or a single Form 2000-600 which summarizes the information requested under item 6 of this form for large numbers of materials involved, for that emissions unit. Documentation of all emissions from all materials must be attached to this form for verification purposes. Examples of this reporting are included in the instruction booklet.

Item 1 Provide the facility name.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code of the stack that exhausts this equipment. Use the same code used on form 2000-200.

Item 4 Provide the source identification code. The source code should be consistent with Form 2000-300, -301, -302, -303, -304, -305, -306, or -307 as appropriate.

Item 5 Identify each material that is associated with the source identified in item 4 which emits hazardous air pollution (for example, a boiler which fires coal, natural gas, or co-fires coal and gas should list <u>three</u> materials: coal, gas, and coal/gas). Facilities using more than 10 materials that release hazardous air contaminants may submit the required information in tabular format for each source. Describe the source(s) of information about the material (e.g., Material Safety Data Sheet). Form 2000-700 may be used for this purpose.

Item 6 List all hazardous air pollutants released from this material. Use the CAS (Chemical Abstract System) number for each pollutant. If no CAS number has been assigned to a pollutant, write "None". Provide the generic or common name of the pollutant. Abbreviate the name if necessary.

Estimate the actual emissions each hazardous air pollutant released from this material at this source. For each pollutant, use the same units found on Form 2000-607 to describe the limitation value (i.e., pounds per hour or pounds per year, depending on the hazardous air pollutant). Also estimate the potential to emit, in tons per year, for each hazardous air pollutant released from this material at this source. If you are claiming an exemption or other compliance demonstration, cite the appropriate regulation. **Attach your calculations and an explanation of any exemptions you claim.**

Estimate each hazardous air pollutant's potential to emit (in tons per year) and **attach your calculations.** Indicate the units (i.e., TPY). Form 2000-700 may be used to report fugitive emissions. NOTE: A limit on the Volatile Organic Compounds for Criteria Pollutants may also be a limit for the hazardous air pollutants.

Operating Permit Application
Colorado Department of Public Health and Environment
Air Pollution Control Division

EMISSION UNIT CRITERIA AIR POLLUTANTS

FORM 2000-601
09-94

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	4. Unit identification code:

5. Complete the following emissions summary for the following pollutants. Attach all calculations and emission factor references.
Attached

Air pollutant	Actual			Potential to emit		Maximum allowable		
	Quantity	U	TPY				U	TPY
Particulates (TSP)					TPY			
PM-10					TPY			
Nitrogen oxides					TPY			
Volatile organic compounds					TPY			
Carbon monoxide					TPY			
Lead					TPY			
Sulfur dioxide					TPY			
Total reduced sulfur					TPY			
Reduced sulfur compounds					TPY			
Hydrogen sulfide					TPY			
Sulfuric Acid Mist					TPY			
Fluorides					TPY			
					TPY			
					TPY			
					TPY			
					TPY			

Units (U) should be entered as follows:

1 = lb/hr
2 = lb/mmBTU
3 = grains/dscf
4 = lb/ gallon
5 = ppmdv
6 = gram/HP-hour
7 = lb/mmscf
8 = other (specify)
9 = other (specify)
10 = other (specify)

EMISSION UNIT CRITERIA AIR POLLUTANTS -- Form 2000-601

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. Use of this form is required for all operating permits. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code of the stack that exhausts this equipment. Use the same code used on form 2000-200.

Item 4 Provide the identification code from the appropriate form(s) 2000-300, -301, -302, -303, -304, -305, -306, or -307 completed for the emissions unit that will have its emissions summarized on this form.

Item 5 Provide the emission levels for each listed pollutant emitted from this source. The emissions should be presented using the same units as the applicable limits shown on Form 2000-604 and in tons per year (TPY). The list of footnotes found in the lower left corner of this form allows the applicant to specify the units of each reported emission level. To specify the appropriate units, write the appropriate footnote number in the columns headed by the letter "U".

For example: to indicate an emission rate of 3.2 lbs SO_2/MMBTU, write

Sulfur dioxide	3.2	2

on the line for sulfur dioxide (SO_2).

Potential to emit should represent emissions at full production capacity of the source after reduction by any air pollution control equipment. This is normally 24 hours/day for 365 days/year (i.e., 8760 hours/year), although physical or operational limitations that are in a construction permit issued by the Division, or in the applicable emission control regulation, are considered in determining the potential to emit. Please see the instruction manual for the precise definition of "potential to emit." You may want to use emission factors to determine these emissions.

Maximum allowable emissions should represent the greatest amount of emissions allowed under any permit or applicable standards, taking into consideration the equipment limitations, such as line speed, and pollution control efficiencies of the equipment. In cases where the emission unit has a construction permit, the maximum allowable emissions are equal to the potential to emit.

Please remember to:

Report hazardous air pollutants on Forms 2000-600 and 2000-602.

State the reference(s) for the calculations. Emission factors may be compiled in published documents, such as EPA's AP-42, or may be based on stack test results. A separate page of numbered references is appropriate and may be attached to form 2000-601. Form 2000-700 may be used for this purpose.

Operating Permit Application **PLANT-WIDE HAZARDOUS AIR POLLUTANTS** **FORM 2000-602**

Colorado Department of Public Health and Environment Rev 06-95

Air Pollution Control Division

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _

3. Complete the following emissions summary for all hazardous air emissions at this facility. Calculations attached. Attach a copy of all calculations to this form. Attached

Pollutant CAS	Common or Generic Pollutant Name	Actual emissions		Allowable OR Potential to emit	
		Quantity	Units	Quantity	Units
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
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					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY
					TPY

NOTE: If there is a permit for this unit, the permit limits are the same as the potential to emit.

PLANT-WIDE HAZARDOUS AIR POLLUTANTS -- Form 2000-602

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide an emissions summary for all hazardous air emission sources at this facility:

Indicate the hazardous air pollutant's corresponding Chemical Abstract System (CAS) number. If no CAS number has been assigned to a pollutant, write "None".

Total the emissions for each hazardous air pollutant listed on each Form 2000-600 completed. This will be the total facility emission of this air pollutant. Use the same units (i.e., pounds per hour, pounds per year, tons per year, etc.) for the hazardous air pollutants as used for the standard in Colorado Regulation No. 8, or section 112 of the 1990 Clean Air Act Amendments (42 U.S.C. 7412). NOTE: A limit on the Criteria Pollutant Volatile Organic Compounds may also be a limit on the Hazardous Air Pollutants.

Operating Permit Application
Colorado Department of Public Health and Environment
Air Pollution Control Division

PLANT-WIDE CRITERIA AIR POLLUTANTS

FORM 2000-603
09-94

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _

3. Complete the following emissions summary for the listed emissions at this facility.

Air pollutant	Actual	Potential to emit	Maximum allowable
	TPY	TPY	TPY
Particulates (TSP)			
PM-10			
Nitrogen oxides			
Volatile organic compounds			
Carbon monoxide			
Lead			
Sulfur dioxide			
Total reduced sulfur			
Reduced sulfur compounds			
Hydrogen sulfide			
Sulfuric acid mist			
Fluorides			

PLANT-WIDE CRITERIA AIR POLLUTANTS -- Form 2000-603

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. Use of this form is required for all operating permits. The Division will not consider or act upon your application unless each form used has been entirely completed. Completion of the information in the shaded area of this form is optional. Use "NA" where necessary to identify an information request that does not apply and is not in the optional shaded area.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the emission levels in tons per year (TPY). For each pollutant emitted from the facility, sum the annual actual, potential to emit, and the maximum allowable emission rates (tons per year only) reported for all of the facility's emission units. The individual values are on each Form 2000-601 completed for the application. The totals for each pollutant should be reported on Form 2000-603 in tons per year (TPY).

***** Hazardous air pollutant emissions should be reported on Forms 2000-600 and 2000-602. *****

Operating Permit Application
Colorado Department of Public Health and Environment
Air Pollution Control Division

APPLICABLE REQUIREMENTS AND STATUS OF EMISSION UNIT

FORM 2000-604
Rev 06-95

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	4. Unit identification code:

5. Pollutant	6. Colorado Air Quality Regulations or Construction Permit Number	7. State Only	8. Limitation	9. Compliance Status IN	OUT

10. Other requirements (e.g., malfunction reporting, special operating conditions from an existing permit such as material usage, hours of operation, etc.)	State Only	Compliance Status IN	OUT

****** USE FORM 2000-700 TO EXPLAIN HOW COMPLIANCE WAS DETERMINED FOR EACH APPLICABLE REQUIREMENT******

APPLICABLE REQUIREMENTS AND STATUS OF EMISSIONS UNIT -- Form 2000-604
AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. Use of this form is required for all operating permits. The Division will not consider or act upon your application unless each form used has been entirely completed. Use "NA" where necessary to identify an information request that does not apply.

Complete one form for each regulated emissions unit.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code of the stack that exhausts this equipment. Use the same code used on form 2000-200.

Item 4 Provide the identification code from the appropriate form(s) 2000-300, -301, -302, -303, -304, -305, -306, or -307 completed for the emissions unit that will have its emissions summarized on this form.

Item 5 List all regulated emissions from this source. This includes hazardous air pollutants regulated under Colorado Regulation No. 8, or Sec. 112, Clean Air Act.

Item 6 List the appropriate citation(s) for the regulated emissions from this source. For your convenience, listed below are some (but not all) general regulation headings which contain many of the citations you will need. The instruction booklet more completely describes the listings of rule citations. Several examples are included within these instructions. You may also want to consult citations found in your current permit. Only the State Regulations have to be listed, except where the State regulation adopts a Federal requirement by reference, list the Federal requirement that is referenced. Example: Colorado Regulation 6 adopts a number of Federal regulations. List the Federal requirement specific to the emission unit.

Prevention of Significant Deterioration (PSD)
Standards of Performance for New Stationary Sources

Particulate Matter	Sulfur Dioxide	Organic Compounds	Carbon Monoxide
Lead	Nitrogen Oxides	Visible Emissions	Other

Item 7 Indicate if the requirement is "State only" by writing an asterisk (*) under the State only column. "State only" means that the requirement is enforceable by only the State of Colorado, and <u>not</u> the U.S. EPA.

Item 8 Provide the applicable emission limit (see instruction booklet).

Item 9 Mark the appropriate compliance box ("in" or "out") indicating the compliance status of this source with the applicable emission limit.

Item 10 List any other requirements that are applicable to this source. Such requirements include existing permit requirements, such as biennial stack testing, restrictions on plant operation, total solvent usage, and so on. All requirements from existing permits must be included somewhere on Form 2000-604. Indicate whether these requirements are "State only" and state the compliance status. List any reporting activities required by permit, order, statute or rule regarding compliance at this source that are not addressed elsewhere in this application. General permit conditions and bubble permit conditions shown on existing permits, will be listed on Form 2000-607.

List activities that are known to be subject to new requirements during the term of the proposed permit. Consider new requirements on emissions, monitoring, recordkeeping, testing or test methods and reporting (e.g. MACT standard to be developed for this source by November 1997).

<u>Use Form 2000-700 to explain how the compliance status (In/Out) for each pollutant was identified. Pollutants can be grouped if the explanation is the same for each of them.</u>

Operating Permit Application
Colorado Department of Public Health and Environment
Air Pollution Control Division

PERMIT SHIELD PROTECTION IDENTIFICATION

FORM 2000-605
Rev 06-95

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _

3. Specify Emission Source:	4. Do not use

5. Pollutant, Equipment, or Process	6. Colorado Air Quality Regulations	7. State Only

8. Other requirements (e.g., malfunction reporting, special operating conditions from an existing permit such as material usage, operating hours, etc.)	State Only

NOTE: REQUESTS FOR THE SHIELD MUST BE FOR A SPECIFIC REQUIREMENT IN THE REGULATIONS. USE FORM 2000-700 TO PROVIDE AN EXPLANATION OF WHY THE SHIELD IS REQUESTED

PERMIT SHIELD PROTECTION IDENTIFICATION -- Form 2000-605

AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Use "NA" where necessary to identify an information request that does not apply.

Complete one form for each source for which shield protection from an applicable requirement is desired. Form 2000-700 **must** be used to provide an explanation or justification for the shield request. The request must identify very specific portions of the applicable requirements.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Identify the emission source you want protected from a specific applicable requirement.

Item 4 Official use only

Item 5 List emissions from this source you wish to identify for the permit shield.

Item 6 List the **specific** citation(s) for which you are requesting the permit shield. Any explanation for why the shield is requested is to be provided on Form 2000-700.

Item 7 Indicate if the requirement is "State only" by writing an asterisk (*) under the State only column. "State only" means the requirement is enforceable only by the State of Colorado, <u>not</u> the U.S. EPA.

Item 8 List any other requirements applicable to this source for which you are requesting the permit shield.

Operating Permit Application
Colorado Department of Public Health and Environment
Air Pollution Control Division

EMISSION UNIT COMPLIANCE PLAN
COMMITMENTS AND SCHEDULE

FORM 2000-606
09-94

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _
3. Stack identification code:	4. Unit identification code:

5. For Units that are presently in compliance with all applicable requirements, including any monitoring and compliance certification requirements of Colorado Air Quality Regulation 3, Part C that apply, complete the following. These commitments are part of the application for operating permits.

We will continue to operate and maintain this Unit in compliance with all applicable requirements.

Form 2000-604 includes new requirements that apply or will apply to this Unit during the term of the permit. We will meet such requirements on a timely basis.

6. For Units not presently fully in compliance, complete the following.

This Unit is in compliance with all applicable requirements except for those indicated below. We will achieve compliance according to the following schedule (If more space is needed attach additional copies of Form 2000-700):

Applicable Requirement	Corrective Actions	Deadline
1.		
2.		
3.		

Progress reports will be submitted:

Start date: _____ and every six (6) months thereafter

EMISSION UNIT COMPLIANCE PLAN
COMMITMENTS AND SCHEDULE -- Form 2000-606
AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. Use of this form is required for all operating permits. The Division will not consider or act upon your application unless each form used has been entirely completed. Use "NA" where necessary to identify an information request that does not apply.

Completion of this form for each emissions unit establishes that unit's compliance status. Referenced documents (e.g., stack test reports) should be enclosed or on file at the Air Pollution Control Division.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 Provide the identification code of the stack that exhausts this equipment. Use the same code used on form 2000-200.

Item 4 Provide the identification code from the appropriate form(s) 2000-300, -301, -302, -303, -304, -305, -306, or -307 completed for the emissions unit that will have its compliance certified on this form.

Item 5 Mark each box, as appropriate, to formally commit to maintaining compliance for the duration of the permit.

Item 6 For each applicable requirement identified on Form 2000-604 with which the emissions unit is presently not in compliance, briefly describe how compliance will be achieved. Include the equipment or operational changes necessary to come into compliance. Refer to orders, judgments, approved plans or other documents that establish or more fully describe how applicable requirements will be met. Form 2000-700 may be used to provide additional explanation.

If you discover that this emissions unit should have (but did not) receive a permit from the Division when it was constructed, you should state on the form that the emissions unit did not receive a permit and then indicate that the present application constitutes the overdue new (or modified) source permit application for the particular emissions unit. The deadline dates in such a case are the date of the present application and some anticipated date of permit issuance (described as such on Form 2000-700 or other attached explanation).

Summarize the schedule of measures leading to compliance with all requirements. Include remedial measures and deadlines for milestone events (e.g. contract award date, start dates for construction or installation, completion of operator training). Reference any orders, decrees or other judgments that establish or more fully describe the compliance schedule.

Summarize the schedule for submission of progress reports. Refer to appropriate documents that establish or more fully describe the submission schedule. The start date for these progress reports must be no later than 6 months following the date of this permit application.

PLANT-WIDE APPLICABLE REQUIREMENTS

FORM 2000-607
Rev 06-95

FORM NOT REQUIRED FOR ALL FACILITIES - SEE INSTRUCTIONS #3 AND #8 ON REVERSE SIDE
IF FORM 2000-607 IS USED; FORM 2000-608 MUST ALSO BE COMPLETED

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _

3. Pollutant	4. Colorado Air Quality Regulations or Permit Number	5. State Only	6. Limitation	7. Compliance Status IN	OUT

8. Is this facility subject to the provisions governing prevention of accidental releases of hazardous air pollutants contained in section 112(r)(7) of the Clean Air Act? Yes No

Has a prevention plan been prepared? Yes No Has the plan been submitted to the regulatory agency? Yes No

What Agency?_____ Date submitted:

9. Other requirements (e.g., malfunction reporting, special operating conditions from an existing permit such as material limitation, hours of operation, etc.)	State Only	Compliance Status IN	OUT

****** USE FORM 2000-700 TO EXPLAIN HOW COMPLIANCE WAS DETERMINED FOR EACH APPLICABLE REQUIREMENT.**
THIS FORM IS NOT A SUBSTITUTE FOR FORM 2000-604 *****

PLANT-WIDE APPLICABLE REQUIREMENTS -- Form 2000-607
AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Use "NA" where necessary to identify an information request that does not apply.

Item 1 Provide the name of the facility.

Item 2 Provide the facility identification (FID) code.

Item 3 List all emissions regulated on a plant-wide basis from this source. This includes hazardous air pollutants regulated under Colorado Regulation No. 8, or Sec. 112, Clean Air Act. For example, for petroleum refining operations existing prior to August 11, 1977, Colorado Air Quality Regulation 1, limits the entire facility to a total sulfur dioxide emission of 0.7 pounds per barrel of oil processed. For petroleum refining operations going into service after that date, the total sulfur dioxide emissions for the entire facility is limited to 0.3 pounds per barrel of oil processed. Only the State Regulations have to be listed; except where the State regulation adopts a Federal requirement by reference, list the Federal requirement that is specific to the plant. Example: Colorado Regulation 6 adopts a number of Federal regulations. List the specific Federal regulation that applies to your plant.

Item 4 List the appropriate citation(s) for the regulated emissions from this source.

Item 5 Indicate if the requirement is "State only" by writing an asterisk (*) under the State only column. "State only" means that the requirement is enforceable by only the State of Colorado, <u>not</u> the U.S. EPA.

Item 6 Provide the applicable de minimis value listed in Colorado Regulation No. 8 for the hazardous air pollutants significantly emitted from your facility (see instruction booklet).

Item 7 Mark the correct compliance status box indicating the compliance status of this source with the applicable emission limit.
If an exemption is requested, cite the exemption authority and attach the appropriate information on Form 2000-700. Example:

Virgin Fossil Fuel
Good Combustion Technology for Wood
The Furnace Exit Temperature is ___°F, based on .....
The Furnace Residence Time is ___ seconds, based on .....
The Furnace Exit Carbon Monoxide Concentration (corrected to 7% O_2) is ___ ppmdv, based on.....
The monitoring and recordkeeping shall include .....

Item 8 Until EPA promulgates the final regulations for prevention of accidental releases, the content of the plan is <u>not</u> required to be included with the permit application. If you want to plan for the future, refer to section 112(r)(7), Prevention of Accidental Releases, in the Clean Air Act for the provisions which may pertain to this facility.

Item 9 List any other facility-wide requirements that are applicable to this source. Such requirements include existing permit requirements, such as restrictions on plant operation, total solvent usage, and so on. All requirements from existing permits relating to the plant as a whole must be included somewhere on Form 2000-607. Indicate whether these requirements are "State only" and state the compliance status. List any reporting activities required by permit, order, statute or rule regarding compliance at this source that are not addressed elsewhere in this application. General permit conditions, shown on existing permits will be listed on Form 2000-607.

List activities that are known to be subject to new requirements during the term of the proposed permit. Consider new requirements on emissions, monitoring, recordkeeping, testing or test methods and reporting (e.g. MACT standard to be developed for this source by November 1997).

<u>Use Form 2000-700 to explain how the compliance status (In/Out) for each pollutant was identified. Pollutants can be grouped if the explanation is the same for each of them.</u>

Operating Permit Application
Colorado Department of Public Health and Environment
Air Pollution Control Division

PLANT-WIDE COMPLIANCE PLAN
COMMITMENTS AND SCHEDULE

FORM 2000-608
Rev 06-95

USE THIS FORM ONLY IF FORM 2000-607 USED

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _ _

3. For facilities that are presently in compliance with all applicable requirements, including any monitoring and compliance certification requirements under Colorado Air Quality Regulation 3, Part C that apply, complete the following. These commitments are part of the application for operating permits.

We will continue to operate and maintain this facility in compliance with all applicable requirements.

Form 2000-607 includes new requirements that apply or will apply to this facility during the term of the permit. We will meet such requirements on a timely basis.

4. For facilities not presently fully in compliance, complete the following.

This facility is in compliance with all applicable requirements except for those indicated below. We will achieve compliance according to the following schedule (If more space is needed attach additional sheets.):

Applicable Requirement	Corrective Actions	Deadline
1.		
2.		
3.		

Progress reports will be submitted:

Start date: _____ and every six (6) months thereafter

THIS FORM IS NOT A SUBSTITUTE FOR FORM 2000-606

PLANT-WIDE COMPLIANCE PLAN
COMMITMENTS AND SCHEDULE -- Form 2000-608
AIR POLLUTION CONTROL OPERATING PERMIT APPLICATION INSTRUCTIONS

NOTE: The operating permit must be prepared and submitted on forms supplied by the Division. This is a supplemental form for use only when necessary to provide complete information in the operating permit application. The Division will not consider or act upon your application unless each form used has been entirely completed. Use "NA" where necessary to identify an information request that does not apply.

Completion of this form establishes the facility's compliance status. Referenced documents (e.g., stack test reports) should be enclosed or on file at the Air Pollution Control Division.

Items 1 and 2 Provide the facility name and identification (FID) code from the Division's Emissions Inventory.

Item 3 Check each box as appropriate to fulfill the requirement to make these commitments at the time of permit application.

Item 4 Check the box to fulfill the requirement to make these commitments at the time of permit application. For each applicable requirement with which the facility is not in compliance identified on Form 2000-607, briefly describe how compliance will be achieved. Include the equipment or operational changes necessary to come into compliance. Refer to orders, judgments, approved plans or other documents that establish or more fully describe how applicable requirements will be met. Form 2000-700 may be used to provide additional explanation.

Summarize the schedule of measures leading to compliance with all requirements. Include remedial measures and deadlines for milestone events (e.g. contract award date, start dates for construction or installation, completion of operator training). Reference any orders, decrees or other judgments that establish or more fully describe the compliance schedule.

Summarize the schedule for submission of progress reports. Refer to appropriate documents that establish or more fully describe the submission schedule. The start date for these progress reports must be no later than 6 months following the date of this permit application.

Operating Permit Application
Colorado Department of Public Health and Environment
Air Pollution Control Division

SUPPLEMENTAL INFORMATION

FORM 2000-700
09-94

SEE INSTRUCTIONS ON REVERSE SIDE

1. Facility name:	2. Facility identification code: CO _ _ _ _ _ _

3. This form supplements Form 2000 - _____ for Emission Unit (e.g. B001, P001, etc.)

Additional Information, Diagrams	Item Number

Operating Permit Application
Colorado Department of Health
Air Pollution Control Division

TABULATION OF PERMIT APPLICATION FORMS

FORM 2000-800

09-94

Facility Name:_____ Facility Identification Code: CO _ _ _ _ _ _ _

I. ADMINISTRATION		
This application contains the following forms:	Form 2000-100, Facility Identification	
	Form 2000-101, Facility Plot Plan	
	Forms 2000-102, -102A, and -102B, Source and Site Descriptions	
II. EMISSIONS SOURCE DESCRIPTION		**Total Number of This Form**
This application contains the following forms (one form for each facility boiler, printing operation, etc.):	Form 2000-200, Stack Identification	
	Form 2000-300, Boiler or Furnace Operation	
	Form 2000-301, Storage Tanks	
	Form 2000-302, Internal Combustion Engine	
	Form 2000-303, Incineration	
	Form 2000-304, Printing Operations	
	Form 2000-305, Painting and Coating Operations	
	Form 2000-306, Miscellaneous Processes	
	Form 2000-307, Glycol Dehydration Unit	
III. AIR POLLUTION CONTROL SYSTEM		**Total Number of This Form**
This application contains the following forms:	Form 2000-400, Miscellaneous	
	Form 2000-401, Condensers	
	Form 2000-402, Adsorbers	
	Form 2000-403, Catalytic or Thermal Oxidation	
	Form 2000-404, Cyclones/Settling Chambers	
	Form 2000-405, Electrostatic Precipitators	
	Form 2000-406, Wet Collection Systems	
	Form 2000-407, Baghouses/Fabric Filters	
IV. COMPLIANCE DEMONSTRATION		**Total Number of This Form**
This application contains the following forms (one for each facility boiler, printing operation, etc.):	Form 2000-500, Compliance Certification - Monitoring and Reporting	
	Form 2000-501, Continuous Emission Monitoring	
	Form 2000-502, Periodic Emission Monitoring Using Portable Monitors	
	Form 2000-503, Control System Parameters or Operation Parameters of a Process	
	Form 2000-504, Monitoring Maintenance Procedures	
	Form 2000-505, Stack Testing	
	Form 2000-506, Fuel Sampling and Analysis	
	Form 2000-507, Recordkeeping	
	Form 2000-508, Other Methods	

V. EMISSION SUMMARY AND COMPLIANCE CERTIFICATION		Total Number of This Form
This application contains the following forms quantifying emissions, certifying compliance with applicable requirements, and developing a compliance plan	Form 2000-600, Emission Unit Hazardous Air Pollutants	
	Form 2000-601, Emission Unit Criteria Air Pollutants	
	Form 2000-602, Facility Hazardous Air Pollutants	
	Form 2000-603, Facility Criteria Air Pollutants	
	Form 2000-604, Applicable Requirements and Status of Emission Unit	
	Form 2000-605, Permit Shield Protection Identification	
	Form 2000-606, Emission Unit Compliance Plan - Commitments and Schedule	
	Form 2000-607, Plant-Wide Applicable Requirements	
	Form 2000-608, Plant-Wide Compliance Plan - Commitments and Schedule	

VI. SIGNATURE OF RESPONSIBLE OFFICIAL - FEDERAL/STATE CONDITIONS

A. STATEMENT OF COMPLETENESS

I have reviewed this application in its entirety and, based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this application are true, accurate and complete.

B. CERTIFICATION OF FACILITY COMPLIANCE STATUS - FEDERAL/STATE CONDITIONS (check one box only)

I certify that the facility described in this air pollution permit application is fully in compliance with all applicable requirements.

I certify that the facility described in this air pollution permit application is fully in compliance with all applicable requirements, except for the following emissions unit(s):

_____ .
(list all non-complying units)

WARNING: Any person who knowingly, as defined in § 18-1-501(6), C.R.S., makes any false material statement, representation, or certification in, or omits material information from this application is guilty of a misdemeanor and may be punished in accordance with the provisions of § 25-7 122.1, C.R.S.

Printed or Typed Name	Title
Signature	Date Signed

CERTIFICATION FOR STATE-ONLY CONDITIONS **FORM 2000-800**

09-94

Facility Name:_____ Facility Identification Code: CO _ _ _ _ _ _ _

VI. SIGNATURE OF RESPONSIBLE OFFICIAL - STATE ONLY CONDITIONS

A. STATEMENT OF COMPLETENESS

I have reviewed this application in its entirety and, based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this application are true, accurate and complete.

B. CERTIFICATION OF FACILITY COMPLIANCE STATUS FOR STATE-ONLY CONDITIONS (check one box only)

I certify that the facility described in this air pollution permit application is fully in compliance with all applicable requirements.

I certify that the facility described in this air pollution permit application is fully in compliance with all applicable requirements, except for the following emissions unit(s):

_____ .
(list all non-complying units)

WARNING: Any person who knowingly, as defined in § 18-1-501(6), C.R.S., makes any false material statement, representation, or certification in, or omits material information from this application is guilty of a misdemeanor and may be punished in accordance with the provisions of § 25-7 122.1, C.R.S.

Printed or Typed Name	Title
Signature	Date Signed

SEND ALL MATERIALS TO:

COLORADO DEPARTMENT OF HEALTH
APCD-SS-B1
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530

MAJOR SOURCE OPERATING PERMIT APPLICATION
APPLICATION COMPLETENESS SUMMARY FORM

1. FACILITY NAME:

2. PERMIT:

3. REVIEW ENGINEER:

4. DATE OF APPLICATION:

5. DATE RECEIVED BY APCD

COMPLETENESS DETERMINATION

I. IDENTIFYING INFORMATION	COMPLETE ___	INCOMPLETE ___	NOT APPLICABLE
II. EMISSIONS	COMPLETE ___	INCOMPLETE ___	NOT APPLICABLE
III. APPLICABILITY	COMPLETE ___	INCOMPLETE ___	NOT APPLICABLE
IV. COMPLIANCE	COMPLETE ___	INCOMPLETE ___	NOT APPLICABLE

APPLICATION FORM CERTIFIED FOR TRUTH, ACCURACY, AND COMPLETENESS BY:

___ OFFICIAL TITLE ___ SIGNATURE ___ DATE

APPLICATION EVALUATION

___ COMPLETE (BASIC INFORMATION PRESENT TO BEGIN PROCESSING)

___ INCOMPLETE - RETURN WITH ADDITIONAL INFORMATION BY:

COMMENTS

REVIEWED BY: DATE

MAJOR SOURCE OPERATING PERMIT APPLICATION

APPLICATION COMPLETENESS CHECK LIST

I. IDENTIFYING INFORMATION

___ COMPLETE ___ INCOMPLETE ___ NOT APPLICABLE

A. FACILITY INFORMATION

FACILITY NAME, LOCATION & MAILING ADDRESS ___ YES ___ NO
PERMIT CONTACT PERSON ___ YES ___ NO
RESPONSIBLE OFFICIAL ___ YES ___ NO

PERMIT REQUESTED ___ YES ___ NO

B. SOURCE DESCRIPTION

1. OPERATIONAL INFORMATION: ___ YES ___ NO

SIC/SCC CODES ___ YES ___ NO
LISTING AND DESCRIPTION OF EMISSION SOURCE(S) ___ YES ___ NO

2. IDENTIFICATION AND DESCRIPTION OF ALTERNATIVE OPERATIVE SCENARIOS (IF APPLICABLE) ___ YES ___ NO ___ N/A

C. PERMIT SHIELD REQUESTED ___ YES ___ NO

II. EMISSIONS

___ COMPLETE ___ INCOMPLETE ___ NOT APPLICABLE

A. EMISSIONS INFORMATION

1. QUANTIFICATION OF ALL EMISSIONS OF REGULATED AIR POLLUTANTS ___ YES ___ NO
2. EMISSION SOURCES:
IDENTIFICATION AND DESCRIPTION OF ALL EMISSION SOURCES IN SUFFICIENT DETAIL TO ESTABLISH THE BASIS FOR FEES AND APPLICABILITY OF REQUIREMENTS. ___ YES ___ NO
A LIST OF INSIGNIFICANT EMISSIONS UNITS OR ACTIVITIES EXEMPTED BECAUSE OF SIZE OR PRODUCTION RATE. ___ YES ___ NO ___ N/A

4. PROCESS INFORMATION TO THE EXTENT IT IS NEEDED TO DETERMINE OR REGULATE EMISSIONS:

FUELS ___ YES ___ NO ___ N/A
RAW MATERIAL(S) / MATERIALS USED ___ YES ___ NO ___ N/A
PRODUCTION RATES ___ YES ___ NO ___ N/A

5. FOR REGULATED AIR POLLUTANTS, LIMITATIONS ON SOURCE OPERATIONS AFFECTING:

EMISSIONS ___ YES ___ NO ___ N/A
ANY WORK PRACTICE STANDARDS ___ YES ___ NO ___ N/A

6. OTHER INFORMATION REQUIRED BY ANY APPLICABLE REQUIREMENTS FOR ALL REGULATED AIR POLLUTANTS SUCH AS:
FLOW RATES ___ YES ___ NO ___ N/A
STACK PARAMETERS ___ YES ___ NO ___ N/A

7. CALCULATIONS ON WHICH EMISSIONS RELATED INFORMATION ARE BASED ___ YES ___ NO ___ N/A

III. APPLICABILITY

___ COMPLETE ___ INCOMPLETE ___ NOT APPLICABLE

1. CITATION AND DESCRIPTION OF ALL APPLICABLE REQUIREMENTS ___ YES ___ NO
2. OTHER SPECIFIC INFORMATION THAT MAY BE NECESSARY TO IMPLEMENT AND ENFORCE OTHER APPLICABLE REQUIREMENTS OR TO DETERMINE THE APPLICABILITY OF REQUIREMENTS ___ YES ___ NO
3. AN EXPLANATION OF ANY PROPOSED EXEMPTIONS FROM OTHERWISE APPLICABLE REQUIREMENTS ___ YES ___ NO ___ N/A

IV. COMPLIANCE

___ COMPLETE ___ INCOMPLETE ___ NOT APPLICABLE

A. COMPLIANCE STATUS

1. A DESCRIPTION OF THE COMPLIANCE STATUS OF THE SOURCE WITH RESPECT TO ALL APPLICABLE REQUIREMENTS ___ YES ___ NO
2. FOR APPLICABLE REQUIREMENTS WITH WHICH THE SOURCE IS IN COMPLIANCE, A STATEMENT THAT THE SOURCE WILL CONTINUE TO COMPLY WITH SUCH REQUIREMENTS ___ YES ___ NO
3. FOR APPLICABLE REQUIREMENTS THAT WILL BECOME EFFECTIVE DURING THE PERMIT TERM, A STATEMENT THAT THE SOURCE WILL MEET SUCH REQUIREMENTS ON A TIMELY BASIS ___ YES ___ NO ___ N/A
4. FOR REQUIREMENTS FOR WHICH THE SOURCE IS NOT IN COMPLIANCE AT THE TIME OF PERMIT ISSUANCE, A NARRATIVE DESCRIPTION OF HOW THE SOURCE WILL ACHIEVE COMPLIANCE WITH SUCH REQUIREMENTS ___ YES ___ NO ___ N/A
5. IDENTIFICATION AND DESCRIPTION OF AIR POLLUTION CONTROL EQUIPMENT AND COMPLIANCE MONITORING DEVICES OR ACTIVITIES ___ YES ___ NO
6. DESCRIPTION OF OR REFERENCE TO ANY APPLICABLE TEST METHOD FOR DETERMINING COMPLIANCE WITH EACH APPLICABLE REQUIREMENT ___ YES ___ NO

B. COMPLIANCE SCHEDULE

___ COMPLETE ___ INCOMPLETE ___ NOT APPLICABLE

1. A SCHEDULE OF COMPLIANCE FOR SOURCES THAT ARE NOT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS AT THE TIME OF PERMIT ISSUES ___ YES ___ NO ___ N/A
2. A SCHEDULE FOR SUBMISSION OF CERTIFIED PROGRESS REPORTS NO LESS FREQUENTLY THAN EVERY SIX MONTHS FOR SOURCES REQUIRED TO HAVE A SCHEDULE OF COMPLIANCE TO REMEDY A VIOLATION ___ YES ___ NO ___ N/A

C. COMPLIANCE CERTIFICATION

___ COMPLETE ___ INCOMPLETE ___ NOT APPLICABLE

1. CERTIFICATION OF COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS BY A RESPONSIBLE OFFICIAL ___ YES ___ NO
2. A STATEMENT OF METHODS USED FOR DETERMINING COMPLIANCE, INCLUDING A DESCRIPTION OF MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS AND TEST METHODS ___ YES ___ NO
3. A SCHEDULE FOR SUBMISSION OF COMPLIANCE CERTIFICATIONS ___ YES ___ NO
4. A STATEMENT INDICATING THE SOURCE'S COMPLIANCE STATUS WITH ANY APPLICABLE ENHANCED MONITORING AND COMPLIANCE CERTIFICATION REQUIREMENTS OF THE FEDERAL ACT ___ YES ___ NO