



Concrete Batch Plant APEN Form APCD-224

Air Pollutant Emission Notice (APEN) and Application for Construction Permit

All sections of this APEN and application must be completed for both new and existing facilities, including APEN updates. An application with missing information may be determined incomplete and may be returned or result in longer application processing times. *You may be charged an additional APEN fee if the APEN is filled out incorrectly or is missing information and requires re-submittal.*

This APEN is to be used for concrete batch plants. If your emission unit does not fall into that category, there may be a different specialty APEN available for your operation (e.g. mining operations, HMA plant, crusher, screen). In addition, the General APEN (Form APCD-200) is available if the specialty APEN options do not meet your reporting needs. A list of specialty APENs is available on the Air Pollution Control Division (APCD) website at www.colorado.gov/cdphe/apcd.

This emission notice is valid for five (5) years. Submission of a revised APEN is required 30 days prior to expiration of the five-year term, or when a reportable change is made (significant emissions increase, increase production, new equipment, change in fuel type, etc). See Regulation No. 3, Part A, II.C. for revised APEN requirements.

Permit Number: _____ AIRS ID Number: _____ / _____ / _____
[Leave blank unless APCD has already assigned a permit # and AIRS ID]

Section 1 - Administrative Information

Company Name¹: _____

Site Name: _____

Site Location: _____ Site Location County: _____

_____ NAICS or SIC Code: _____

Mailing Address: _____ Permit Contact: _____
(Include Zip Code) _____ Phone Number: _____

Portable Source Home Base: _____ E-Mail Address²: _____

¹Please use the full, legal company name registered with the Colorado Secretary of State. This is the company name that will appear on all documents issued by the APCD. Any changes will require additional paperwork.

²Permits and any processing invoices will be issued by APCD via e-mail to the address provided.

Permit Number: _____

AIRS ID Number: _____ / _____ / _____

[Leave blank unless APCD has already assigned a permit # and AIRS ID]

Section 2- Requested Action

NEW permit OR newly-reported emission source *(check one below)*

STATIONARY source

PORTABLE source

- OR -

MODIFICATION to existing permit *(check each box below that applies)*

Change fuel or equipment

Change company name

Add point to existing permit

Change concrete production or permit limit

Transfer of ownership³

Other *(describe below)*

- OR -

APEN submittal for update only **(Please note blank APENs will not be accepted)**

- ADDITIONAL PERMIT ACTIONS -

APEN submittal for permit exempt/grandfathered source

Additional Info & Notes: _____

³ For transfer of ownership, a completed Transfer of Ownership Certification Form (Form APCD-104) must be submitted.

Section 3 - General Information

Company equipment Identification No. *(optional)*: _____

For *existing* sources, operation began on: _____

For *new or reconstructed* sources, the projected start-up date is: _____

Normal Hours of Source Operation: _____ hours/day _____ days/week _____ weeks/year

Seasonal use percentage: Dec-Feb: _____ Mar-May: _____ June-Aug: _____ Sept-Nov: _____

Permit Number: _____

AIRS ID Number: _____ / _____ / _____

[Leave blank unless APCD has already assigned a permit # and AIRS ID]

Section 4 - Processing Information & Material Use

Plant Type: Central Mix Plant (Wet) Truck Mix Plant (Dry)

Plant Design Rate (Maximum Capacity per Hour) _____ cubic yards per hour (finished product)

Mix Plant: Make _____ Model _____ Serial _____

Requested Production Rate⁴: _____ cubic yards per year

Actual Production Rate: _____ cubic yards per year

From what year is the Actual Production Rate? _____ (example: 2015)

⁴ Requested values will become permit limitations. Requested limit(s) should consider future process growth.

Section 4A: Check all the processes that are performed at the site.

<u>Process</u>	<u>SCC Code</u>	<u>List Controls</u>
<input type="checkbox"/> Sand and Aggregate Transfer to Storage Piles	3-05-011-06	_____
<input type="checkbox"/> Sand and Aggregate Transfer - Conveyor	3-05-011-06	_____
<input type="checkbox"/> Sand and Aggregate Transfer to Elevated Bin	3-05-011-06	_____
<input type="checkbox"/> Cement and Fly Ash Loading To Storage Bins		
<input type="checkbox"/> Pneumatic		_____
<input type="checkbox"/> Other		_____
<input type="checkbox"/> Weigh Hopper Loading	3-05-011-08	_____
<input type="checkbox"/> Mixer Loading (Central Mix)	3-05-011-09	_____
<input type="checkbox"/> Truck Loading (Truck Mix)	3-05-011-10	_____
<input type="checkbox"/> Vehicle Traffic (Unpaved Roads)	3-05-025-04	_____
<input type="checkbox"/> Wind Erosion From Sand and Aggregate Storage Piles	3-05-025-07	_____

Section 4B: Emissions from aggregate storage piles.

Maximum Stored at One Time: _____ tons

Proposed Controls for Aggregate Stockpile:

Watering _____ times/day

Use of Pre-washed Aggregate

Enclosures Type: _____ (Complete or Partial)

Other (specify) _____

Permit Number: _____

AIRS ID Number: _____ / _____ / _____

[Leave blank unless APCD has already assigned a permit # and AIRS ID]

Section 4C: Transport of aggregate to the site from an off-site location (if plant is not located at a mine).

Amount of aggregate received: _____ tons/day _____ tons/year

	<u>Haul Vehicle 1</u>	<u>Haul Vehicle 2</u>	<u>Haul Vehicle 3</u>	
Haul vehicle capacity:	_____	_____	_____	tons
Haul vehicle empty weight:	_____	_____	_____	tons
Max number of trips per day:	_____	_____	_____	
Haul road length (avg. one way):	_____	_____	_____	feet
Posted speed limit on haul road:	_____ mph			

List air pollution controls used for the on-site haul roads:

- Paved Surface
- Graveled Surface:
 - Watering (check one): Frequent: _____ times/day
 - As needed
- Chemical Stabilizer - Type: _____ (e.g. mag chloride, resin, etc.)
Amount applied per year: _____

Section 4D: Transport of aggregate to the site from an on-site location (if plant is located at a mine).

Amount of aggregate received: _____ tons/day _____ tons/year

	<u>Haul Vehicle 1</u>	<u>Haul Vehicle 2</u>	<u>Haul Vehicle 3</u>	
Haul vehicle/loader capacity:	_____	_____	_____	tons
Haul vehicle/loader empty weight:	_____	_____	_____	tons
Max number of trips per day:	_____	_____	_____	
Haul road length (avg. one way):	_____	_____	_____	feet
Posted speed limit on haul road:	_____ mph			

List air pollution controls used for the on-site haul roads:

- Paved Surface
- Graveled Surface:
 - Watering (check one): Frequent: _____ times/day
 - As needed
- Chemical Stabilizer - Type: _____ (e.g. mag chloride, resin, etc.)
Amount applied per year: _____

Permit Number: _____

AIRS ID Number: _____ / _____ / _____

[Leave blank unless APCD has already assigned a permit # and AIRS ID]

Section 4E: Transport of cement and fly ash to the site.

	<u>Haul Vehicle 1</u>	<u>Haul Vehicle 2</u>	<u>Haul Vehicle 3</u>	
Haul vehicle capacity:	_____	_____	_____	tons
Haul vehicle empty weight:	_____	_____	_____	tons
Max number of trips per day:	_____	_____	_____	
Haul road length (avg. one way):	_____	_____	_____	feet
Posted speed limit on haul road:	_____ mph			

List air pollution controls used for the on-site haul roads:

- Paved Surface
- Graveled Surface:
 - Watering (check one): Frequent: _____ times/day
 - As needed
- Chemical Stabilizer - Type: _____ (e.g. mag chloride, resin, etc.)
- Amount applied per year: _____

Section 4F: On-site moving of aggregate from storage piles to storage bins.

	<u>Loader 1</u>	<u>Loader 2</u>	<u>Loader 3</u>	
Haul vehicle capacity:	_____	_____	_____	tons
Haul vehicle empty weight:	_____	_____	_____	tons
Max number of trips per day:	_____	_____	_____	
Haul road length (avg. one way):	_____	_____	_____	feet
Posted speed limit on haul road:	_____ mph			

List air pollution controls used for the on-site haul roads:

- Paved Surface
- Graveled Surface:
 - Watering (check one): Frequent: _____ times/day
 - As needed
- Chemical Stabilizer - Type: _____ (e.g. mag chloride, resin, etc.)
- Amount applied per year: _____

Section 4G: Removal of concrete from the site.

	<u>Haul Vehicle 1</u>	<u>Haul Vehicle 2</u>	<u>Haul Vehicle 3</u>	
Haul vehicle capacity:	_____	_____	_____	tons
Haul vehicle empty weight:	_____	_____	_____	tons
Max number of trips per day:	_____	_____	_____	
Haul road length (avg. one way):	_____	_____	_____	feet
Posted speed limit on haul road:	_____ mph			

List air pollution controls used for the on-site haul roads:

- Paved Surface
- Graveled Surface:
 - Watering (check one): Frequent: _____ times/day
 - As needed
- Chemical Stabilizer - Type: _____ (e.g. mag chloride, resin, etc.)
- Amount applied per year: _____

Permit Number: _____

AIRS ID Number: _____ / _____ / _____

[Leave blank unless APCD has already assigned a permit # and AIRS ID]

Section 4H: Additional sources of emissions.

List any other sources of emissions and related controls (e.g. crushers, screens, generator engines, additional fugitive emissions sources, etc.)

Section 5 - Main Mixer Baghouse Stack Information

Geographical Coordinates <i>(Latitude/Longitude or UTM)</i>

Discharge Height Above Ground Level <i>(Feet)</i>	Temp. <i>(°F)</i>	Flow Rate <i>(ACFM)</i>	Velocity <i>(ft/sec)</i>

Indicate the direction of the stack outlet: *(check one)*

- Upward
 Downward
 Upward with obstructing raincap
 Horizontal
 Other (descr _____)

Indicate the stack opening and size: *(check one)*

- Circular Interior stack diameter (inches): _____
 Square/rectangle Interior stack width (inches): _____ Interior stack depth (inches): _____
 Other (describe): _____

Permit Number: _____

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[Leave blank unless APCD has already assigned a permit # and AIRS ID]

Section 6 - Combustion Equipment & Fuel Consumption Information

Check box if this information is not applicable to the source and skip to Section 7. You may check this box if there is no fuel-burning equipment or boilers associated with this plant, or if any associated boiler is fired on gaseous fuel and is rated at less than or equal to 5 MMBtu/hr.

Design Input Rate (MMBTU/hr)	Actual Annual Fuel Use (Specify Units)	Requested Annual Permit Limit ⁴ (Specify Units)

From what year is the actual annual fuel use data? _____

Indicate the type of fuel used⁴:

- Pipeline Natural Gas (assumed fuel heating value of 1,020 BTU/SCF)
- Ultra Low Sulfur Diesel (assumed fuel heating value of 138,000 BTU/gallon)
- Propane (assumed fuel heating value of 2,300 BTU/SCF)

⁴ Requested values will become permit limitations. Requested limit(s) should consider future process growth.

Section 7 - Criteria Pollutant Emissions Information

Attach all emission calculations and emission factor documentation to this APEN form.

Is any emission control equipment or practice used to reduce emissions? Yes No

If yes, please describe the control equipment AND state the overall control efficiency (% reduction):

Pollutant	Control Equipment Description	Overall Control Efficiency (% reduction in emissions)
TSP (PM)		
PM ₁₀		
PM _{2.5}		
SO _x		
NO _x		
CO		
VOC		
Other:		

Permit Number: _____

AIRS ID Number: _____ / _____ / _____

[Leave blank unless APCD has already assigned a permit # and AIRS ID]

Section 8 - Applicant Certification

I hereby certify that all information contained herein and information submitted with this application is complete, true and correct.

Signature of Legally Authorized Person (not a vendor or consultant)

Date

Name (please print)

Title

Check the appropriate box to request a copy of the:

- Engineer's Preliminary Analysis conducted
- Draft permit prior to issuance
- Draft permit prior to public notice

(Checking any of these boxes may result in an increased fee and/or processing time)

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Send this form along with \$152.90 to:
Colorado Department of Public Health and Environment
Air Pollution Control Division
APCD-SS-B1
4300 Cherry Creek Drive South
Denver, CO 80246-1530

For more information or assistance call:

Small Business Assistance Program
(303) 692-3175 or (303) 692-3148

Or visit the APCD website at:

<https://www.colorado.gov/cdphe/apcd>

Make check payable to:
Colorado Department of Public Health and Environment

Telephone: (303) 692-3150