Department of Natural Resources and Environmental Control Division of Air Quality	**AQM-1001B** **MANUFACTURING OR PROCESSING OPERATIONS**

SECTION A: CONTINUOUS PROCESS OPERATIONS (Complete a separate Form for each Mode of Operation)

EMISSION POINT NO. (1)	PROCESS DESCRIPTION* (2)	CONTINUOUS OR BATCH (3)	MAXIMUM OPERATING SCHEDULE (Hours/Day, Days/Week, Weeks/Year)	PROCESS EQUIPMENT (Brief Description) (5)	DATE INSTALLED (6)
			Hours/Day Days/Week Weeks/Year		/ /

EMISSION POINT NO. (1)	LIST MAJOR RAW MATERIAL(S) USED (7)	MAXIMUM QUANTITY INPUT OF <u>EACH</u> MAJOR RAW MATERIAL (*Specify Units/Hour*) (8)	TYPE OF PRODUCTS* (9)	QUANTITY OUTPUT (Specify Units)	
				MAXIMUM HOURLY (*Specify Units*) (10a)	MAXIMUM ANNUAL (*Specify Units*) (10b)

* Attach separate sheet if needed

IMPORTANT: **Complete AQM-1001K for Air Pollution Control Equipment. If there is no control equipment, complete only Section 1 of AQM-1001K.**	**AQM-1001B**
	Continued

EMISSION POINT NO. (1)	FUEL TYPE FOR PROCESS HEAT (11)	RATED BURNER CAPACITY (BTU/HOUR) (12)	FUEL COMPOSITION		FUEL USAGE RATES		NOTE: If the combustion products are emitted along with the process emissions, indicate so in this column by writing "*combined*." (15)
			% SULFUR (13a)	% ASH (13b)	MAXIMUM HOURLY (14a)	MAXIMUM ANNUAL (14b)	

16. IMPORTANT: Submit a process flow diagram. Label all materials, equipment and emission point numbers.

17. The Department may request Material Safety Data Sheets ("MSDS") for each process.

SECTION B: BATCH PROCESS OPERATIONS ("BP") (*Complete a separate Form for each Batch Process*)

NOTE: Complete Section B, Batch Process Profile, for each Batch Process in this Permit Application. See instructions for further clarification and information.

1. BATCH PROCESS I.D. NUMBER –*or*- FACILITY DESIGNATION

2. BATCH PROCESS DESCRIPTION
   (Provide description specifying product produced and operations occurring: e.g., production of XYZ drug in Reactor 6, coating and sorting)

3. OPERATING SCENARIOS *("OS")*
   (*Provide the total of the Operating Scenarios occurring in this Batch Process)*

4. EQUIPMENT *("E")*
   (Provide a listing of the Equipment used in this Batch Process)

5. CONTROL DEVICES *("CD")*
   (Provide the number of, and identify, the air pollution Control Devices used in this Batch Process; complete AQM-1001K for Pollution Control Equipment)

6. EMISSION POINTS *("PT")*
   (Identify the total amount of Emission Points found in this Batch Process)

7. Emission Summary of Regulated Air Contaminants for this Batch Process *("BP")*. (Maximum Emissions)
(Provide for each Operating Scenario)

CONTAMINANT CATEGORY/NAME	**BATCH PROCESS *("BP")* MAXIMUM EMISSIONS** *(Pounds per Batch)*[1]		
	FUGITIVE EMISSIONS[2]	**EMISSIONS FROM EMISSION POINTS *("PT")***	**TOTAL EMISSIONS**[3]
VOC (total)			
NO_X			
CO			
SO_2			
PM_{10}			
Other			
PM_{10} (total)			
HAPs (total) *(§112(b) definition)*			

CONTAMINANT NAME	***CAS* No.**	**BATCH PROCESS *("BP")* MAXIMUM EMISSIONS** *(Pounds per Batch)*[1]		
		FUGITIVE EMISSIONS[2]	**EMISSIONS FROM EMISSION POINTS *("PT")***	**TOTAL EMISSIONS**[3]

[1]These are your requested emission limits;
(Provide overall air contaminant emissions for all Operating Scenarios for this Batch Process).

[2]Batch Process Fugitive Emissions are the fugitive emissions generated from the equipment used in the Batch Process;
(Provide the total annual fugitive emissions of each air contaminant from all Operating Scenarios in the Batch Process).

[3]*(Summation of Columns 1 and 2).*

8. Are any of the determined emission limits the result of an *"Alternate Emission Limit"*?[1] YES

[1]If any of the emission levels quantified in the previous sections are entirely or in part limited by an "Alternate Emission Limit", select "YES" and attach a supplemental sheet explaining the basis for the Alternate Emission Limit. Some examples of Alternate Emission Limits are: a probationary rule, a federally-enforceable rule, or an approved case-by-case rule.

9. EQUIPMENT INVENTORY ("E")

(Provide a list and description of all major equipment described in one (1) Batch Process; provide specific information for each piece of major equipment)

BATCH PROCESS I.D. NUMBER -or- FACILITY DESIGNATION[1]	EQUIPMENT I.D.	TYPE/DESCRIPTION[2]	SIZE OR CAPACITY[3]

[1]Batch Process I.D. Number or Facility Designation, as provided in Section B(1).

[2]An overview for the piece of equipment, which includes its function, attributes and make and model, if known; e.g., *Genco AC2200 Glass-Lined Reactor.*

[3]The maximum volume of flow accommodated by the piece of equipment; e.g., *250-gallon Kettle, 500-gallon Reactor, 50-pound-per-hour Dispenser*.

10. CONTROL DEVICE INVENTORY ("CD")*

Complete AQM-1001K for each air pollution control device; if there is no control equipment, complete only Section 1 of AQM-1001K)

CONTROL DEVICE I.D.	FACILITY'S DESIGNATION[1]	TYPE/DESCRIPTION[2]

* "*Control Device*" refers to an Air Pollution Control Apparatus, not a control apparatus which is necessary to execute a process.

[1]The NAME your facility uses for the piece of equipment.

[2]An overview for the piece of equipment, which includes its attributes and make and model, if known.

FACILITY I.D. NO.:

11. OPERATING SCENARIO DESCRIPTION
(*For a batch Process, the process line used to produce a single product is synonymous with an Operating Scenario ("OS")*; *complete this section for each Operating Scenario ("OS")*.

Attach a block/flow diagram for each Operating Scenario ("OS").

OPERATING SCENARIO I.D. NUMBER: OS:	OVERALL RUN TIME: Maximum (hours): Minimum (hours):

FACILITY'S DESIGNATION and PRODUCT NAME (*if applicable*):

PRODUCT DESCRIPTION:

List major raw materials for each Operating Scenario ("*OS*")

PROCESS STEP		I.D. NUMBERS		STEP TIME (Hours)		GAS DISCHARGE INFORMATION			
						FLOW (acfm)		TEMPERATURE (°F)	
OS No.[1]	DESCRIPTION[2]	EQUIPMENT[3]	CONTROL DEVICE[4]	MIN.[5]	MAX.[5]	MIN.	MAX.	MIN.	MAX.

[1]Sequential Number, starting at 1.
[2]Brief description of operations occurring during this scenario.
[3]Use Equipment I.D. Number from Equipment Inventory ("E").
[4]Identify Air Pollution Control Device.
[5]Minimum and maximum amounts of time needed for this operation to occur, in hours, rounded to the nearest tenth.

FACILITY I.D. NO.:

12. EMISSIONS OF REGULATED AIR CONTAMINANTS FOR THIS OPERATING SCENARIO ("*OS*")

CONTAMINANT CATEGORY/NAME	TOTAL MAXIMUM EMISSIONS FROM OPERATING SCENARIO (*at Maximum Flow Rates and Maximum Run Times*) (*pounds per Batch*)
VOC (total)	
NO_X	
CO	
SO_2	
PM (total)	
Other	
PM_{10} (total)	
HAPs[1]	

CONTAMINANT NAME	*CAS* NUMBER	TOTAL MAXIMUM EMISSIONS FROM OPERATING SCENARIO (*at Maximum Flow Rates and Maximum Run Times*) (*pounds per batch*)

[1]As defined by Section 112(b) of the 1990 Clean Air Act Amendment