

KNOX COUNTY DEPARTMENT OF AIR QUALITY MANAGEMENT PERMIT APPLICATION

FORM APC-2 (PAGE 1 OF 2)

PROCESS OR FUEL BURNING SOURCE COVER SHEET

(PLEASE TYPE OR PRINT)

ONE COPY OF THIS FORM MUST BE FILLED OUT COMPLETELY FOR EACH EMISSION SOURCE CLAIMED AND THE APPROPRIATE APC-3 SHEET(S) ATTACHED FOR EACH EMISSION POINT IN THE PROCESS.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER, OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED:

2. EMISSION SOURCE NUMBER: _____

3. DESCRIPTION OF PROCESS OR FUEL BURNING UNIT:

DO NOT WRITE IN THIS SPACE

FACILITY NUMBER / / / / /

SOURCE NUMBER / / / /

SIC CODE / / / / /

REVIEWER / / / /

DATE SUBMITTED / / / / / / / /

DATE REVIEWED / / / / / / / /

4. NORMAL OPERATION:	HOURS/DAY	DAYS/WEEK	WEEKS/YEAR	DAYS/YEAR
5. PERCENT ANNUAL THROUGHPUT:	DEC - FEB	MAR - MAY	JUN - AUG	SEP - NOV

6. TYPE OF PERMIT APPLICATION: (CHECK BELOW, ONE ONLY)

PROCESS SOURCE: APPLY FOR A SEPARATE PERMIT FOR EACH SOURCE. ()
 (CHECK AT RIGHT AND COMPLETE LINES 7, 8, 13, AND 14).

PROCESS SOURCE WITH IN-PROCESS FUEL: PRODUCTS OF COMBUSTION CONTACT MATERIALS HEATED. APPLY FOR A SEPARATE PERMIT FOR EACH SOURCE. ()
 (CHECK AT RIGHT AND COMPLETE LINES 7, 8, AND 10 - 14).

NON-PROCESS FUEL BURNING SOURCE: PRODUCTS OF COMBUSTION DO NOT CONTACT MATERIALS HEATED. COMPLETE THIS FORM FOR EACH BOILER OR FUEL BURNER AND COMPLETE AN EMISSION POINT DESCRIPTION FORM (APC-3) FOR EACH STACK. ()
 (CHECK AT RIGHT AND COMPLETE LINES 9 - 14).

7. TYPE OF OPERATION: CONTINUOUS <input type="checkbox"/> BATCH <input type="checkbox"/>	NORMAL BATCH TIME	BATCHES/DAY	
		AVERAGE	MAXIMUM
8. PROCESS MATERIAL INPUTS AND IN-PROCESS SOLID FUELS:	DIAGRAM* REFERENCE	INPUT RATES (POUNDS/HOURS)	
		DESIGN	ACTUAL
A.			
B.			
C.			
D.			
E.			
F.			
G.			
TOTALS			

*A SIMPLE PROCESS FLOW MUST BE ATTACHED

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9. BOILER OR BURNER DATA: (COMPLETE LINES 9 - 14 USING A SEPARATE FOR EACH BOILER).

BOILER NUMBER	STACK NUMBER*	TYPE OF FIRING**	MAXIMUM RATED BOILER HORSEPOWER	MAXIMUM RATED INPUT CAPACITY (10 ⁶ BTU/HR)	OTHER BOILER RATING (SPECIFY CAPACITY AND UNITS)	
BOILER SERIAL NO.		DATE CONSTRUCTED	DATE OF LAST MODIFICATION (EXPLAIN IN COMMENTS BELOW).			

* BOILERS WITH A COMMON STACK WILL HAVE THE SAME STACK NUMBER.

** CYCLONE, SPREADER (WITH OR WITHOUT REINJECTION), PULVERIZED (WET OR DRY BOTTOM, WITH OR WITHOUT REINJECTION), OTHER STOKER (SPECIFY TYPE), HAND FIRED, AUTOMATIC, OR OTHER TYPE (DESCRIBE BELOW IN COMMENTS).

10. FUEL DATA: (COMPLETE FOR A PROCESS SOURCE WITH IN-PROCESS FUEL OR A NON-PROCESS FUEL BURNING SOURCE).

FUELS USED	ANNUAL USAGE	HOURLY USAGE		% SULFUR	% ASH	BTU VALUE OF FUEL	PRIMARY OR STANDBY USE
		DESIGN	AVERAGE				
NATURAL GAS	10 ⁶ CUFT	CUFT	CUFT			1,000	
#2 FUEL	10 ³ GAL	GAL	GAL				
#5 FUEL	10 ³ GAL	GAL	GAL				
#6 FUEL	10 ³ GAL	GAL	GAL				
COAL	TONS	LBS	LBS				
WOOD	TONS	LBS	LBS				
LIQUID PROPANE	10 ³ GAL	GAL	GAL			85,000	
OTHER (SPECIFY TYPE & UNIT)							

11. IF WOOD IS USED AS A FUEL, COMPLETE THIS SECTION:

FUEL DATA

% BARK BY WEIGHT	% MOISTURE BY WEIGHT	WOOD SPECIES	FUEL SIZE	IF WASTE WOOD IS USED, WHAT INDUSTRY PRODUCED THE WASTE?
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OPERATING DATA

COMBUSTION AIR TEMPERATURE	% EXCESS AIR	RATION OF AIR: TO FUEL AT THE GRATE	RATIO OF UNDERGRATE: TO OVERGRATE AIR	% FLYASH REINJECTED	% OF WOOD BURNED WITH OTHER FUELS
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12. FUEL SUPPLIER:

13. COMMENTS:

14. SIGNATURE: _____ DATE: _____

KNOX COUNTY DEPARTMENT OF AIR QUALITY MANAGEMENT INSTRUCTION PACKET

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PROCESS OR FUEL BURNING SOURCE COVER SHEET

This form should be completed for all new process and boiler permit applications and all renewals where source conditions have changes since the previous application. Whenever this form is submitted, it should be accompanied by an Emission Point Description Form (APC-3) for each stack or emission point within the source.

If any of the information requested is considered confidential, two applications should be submitted; one application clearly marked to indicate that it contains confidential information which is not to be made public and another application which does not contain the confidential information which can be placed in our general files. Emission data requested on the Emission Point Description Form (APC-3) normally cannot be treated as confidential by the Department. Please contact the APC Department if there are any questions concerning confidentiality of information.

- Item 4. - Normal operation should reflect the schedule when any or all of the equipment covered by this application is in operation. Operation at less than normal load, such as boilers operating on an idle, stand-by basis should be included in the operating time. Days/years need to be completed only if operation is so limited that it cannot be adequately described by days/week and weeks/year.
- Item 5. - Percent annual throughput should reflect the approximate seasonal nature of the process. If the operation is not seasonal, enter 25% for each.
- Item 6. - Indicate type of source; process with no in-process fuel, process with in-process fuel, or a fuel burning source. Complete remainder of form accordingly. An Emission Point Description Form (APC-3) should also be completed for each stack or non-stack pollutant emission point included in this source.
- Item 7. - Indicate if the source operates in a continuous or batch type mode. If operation is batch type, indicate normal time required to process a batch and the number of batches, or fraction thereof, processed in a normal 24 hour period.
- Item 8. - This is the list of materials that will be used to determine the process weight rate for this source. Input rates are established as follows:
 - a. For continuous or long-run, steady-state operations, it is the material input weight for the entire period of continuous operation or for a typical portion thereof divided by the number of hours of such period or portion thereof.
 - b. For cyclical or batch type operation, it is the material input weight for a period which covers a complete or an integral number of cycles divided by the hours of actual process operation during such period.
 - c. All inputs should be listed separately; however, it is not expected or desired that an ultimate chemical analysis be given for process inputs. Names as wood chips, limestone, or clay are adequate identifications.
 - d. The process flow diagram should clearly represent the process emission source covered by the application. All emission points within the source should be shown and identified. If a site has more than one process emission source, a flow diagram showing all of the process emission sources at the site should also be attached. The overall flow diagram needs to be included only once and does not need to be included with subsequent applications unless substantial changes have been made.

Item 9. - A separate form should be completed for each boiler. Show identifying number or other unique identification used for the boiler in question. All fuel burning stacks at the site should be identified by number or other suitable code. Enter the identifying number or code for the stack serving the boiler. Show type of firing: hand, underfeed stoker, spreader stoker, chain grate stoker, pulverized fuel-dry bottom, pulverized fuel-wet bottom, oil burner, gas burner, combination oil-gas burner, etc. Use comment space (item number 13) if additional space is needed.

Show boiler capacity in rated output horsepower, and/or rated burner input capacity in millions of BTU/hour. If these values cannot be determined, capacity can be expressed in other units such as pounds per hour steam produced, or the square feet of heating surface, etc., as long as the units used are clearly specified.

List the boiler serial number, approximate date of construction (installation) and, if applicable, the date of the most recent modification. Explain any modification in Item 13.

Item 10. -Complete this table for all fuels used by the boiler described in Item 9, or process described in Item 3. Include primary and all standby fuels so source will have permitted authority to use such fuels. If a source is designed to use a standby fuel, but very little or none is normally used, enter the design rate for such fuels under hourly usage and indicate negligible annual usage.

Item 11. -Unsigned and/or undated applications will not be processed.