

FORM B4

EMISSION SOURCE (WOODWORKING)

REVISED 09/22/16

NCDEQ/Division of Air Quality - Application for Air Permit to Construct/Operate

B4

EMISSION SOURCE DESCRIPTION:	EMISSION SOURCE ID NO:
OPERATING SCENARIO: _____ OF _____	CONTROL DEVICE ID NO(S):
	EMISSION PT. (STACK) ID NO(S):

USE THIS FORM TO IDENTIFY PARTICULATE EMISSION SOURCES FROM THE SAWING, SANDING, PLANING, ETC. OF WOOD AND WOOD PRODUCTS. WOODWORKING OPERATIONS COLOCATED AND VENTING TO THE SAME CONTROL DEVICE OR GROUP OF CONTROL DEVICES CAN BE GROUPED TOGETHER (I.E. MACHINE ROOM #1 VENTING TO TWO BAGFILTERS). LARGER WOODWORKING FACILITIES SHOULD SEPARATE ROUGH END, MACHINE ROOMS, AND SANDING ON SEPARATE FORMS. SOURCES VENTING TO DIFFERENT CONTROL DEVICES SHOULD NOT BE GROUPED TOGETHER. (I.E. SOURCES VENTING TO A BAGFILTER SHOULD NOT BE GROUPED WITH SOURCES VENTING TO A CYCLONE)

DESCRIBE THE WOODWORKING OPERATION

DESCRIBE THE WOODWORKING OPERATION IN DETAIL. INCLUDE THE TYPES OF WOODWORKING AND AMOUNT OF EACH TYPE (I.E. FIVE BAND SAWS, TWO ABRASIVE PLANERS AND ONE TURNING LATHE). ALSO, ATTACH FLOWCHART OR DIAGRAM OF SYSTEM(S):

TYPE OF WOOD: <input type="checkbox"/> SOFT <input type="checkbox"/> HARD <input type="checkbox"/> GREEN WOOD OR <input type="checkbox"/> DRY WOOD (<19% MOISTURE) % MOISTURE _____		
IS THIS OPERATION CONTROLLED: <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES: <input type="checkbox"/> CYCLONE <input type="checkbox"/> BAGFILTER <input type="checkbox"/> OTHER _____		
% OF ANNUAL HOURS VENTING INDOORS:	LOSS (% WASTE):	AVERAGE LB/BD-FT:
ACTUAL BD-FT/YEAR:	MAXIMUM BD-FT/HOUR:	

QUANTIFY THE AMOUNT OF WOODWASTE GENERATED

TOTAL WASTE

IF THIS GROUP OF WOODWORKING MACHINES WERE OPERATING AT MAXIMUM CAPACITY, WHAT IS THE EXPECTED TOTAL WASTE GENERATED PER HOUR (INCLUDING BLOCKS, DUST, AND MATERIAL VENTED TO THE DUCTWORK) ? LB/HOUR

MULTIPLY BY 8760 HOURS/YR

DIVIDE BY 2000 LB/TON

THE POTENTIAL AMOUNT OF TOTAL WASTE EXPECTED ON ANNUAL BASIS (INCLUDING BLOCKS) = TON/YEAR

WASTE VENTED TO THE DUCTWORK (MAXIMUM)

IF THIS GROUP OF WOODWORKING MACHINES WERE OPERATING AT MAXIMUM CAPACITY, WHAT IS THE EXPECTED TOTAL WASTE GENERATED PER HOUR INCLUDING **ONLY** MATERIAL VENTED TO THE DUCTWORK (**NO BLOCKS**) ? LB/HOUR

MULTIPLY BY 8760 HOURS/YR

DIVIDE BY 2000 LB/TON

TOTAL POTENTIAL WASTE VENTED TO THE DUCTWORK = TON/YEAR

(VALUE A)

WASTE VENTED TO THE DUCTWORK (ACTUAL)

WHAT IS THE ACTUAL AMOUNT OF WASTE EXPECTED ON AN ANNUAL BASIS VENTED TO THE DUCTWORK: TON/YEAR

(VALUE B)

CHARACTERIZE THE "IN DUCT" WOODWASTE

FOR THIS SOURCE, INDICATE THE PERCENTAGE OF "IN DUCT" WASTE FROM EACH TYPE OF OPERATION (OR CLOSEST TYPE):

	THE WASTE VENTED TO THE DUCTWORK IS FROM: (INDICATE %)	POTENTIAL TONS TO DUCTWORK (SHOULD EQUAL % ON LEFT COLUMN TIMES VALUE A)	ACTUAL TONS TO DUCTWORK (SHOULD EQUAL % ON LEFT COLUMN TIMES VALUE B)
PLANING			
SHAVING/CHIPPING			
ROUGH SAWING			
FINE SAWING			
MILLING (INCLUDING HOG)			
MOLDING			
SANDING			
OTHER:			
TOTAL:	100%		

TOTAL = VALUE A

TOTAL = VALUE B

ATTACH ALL CALCULATIONS, SUPPORTING DOCUMENTATION, AND FLOWCHARTS/DIAGRAMS OF SYSTEM(S).

Comments:

Attach Additional Sheets As Necessary