ncasi technical bulletin

NATIONAL COUNCIL OF THE PAPER INDUSTRY FOR AIR AND STREAM IMPROVEMENT, INC., 260 MADISON AVENUE, NEW YORK, N.Y. 10016

PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD AIR EMISSION DATABASES

TECHNICAL BULLETIN NO. 693

APRIL 1995

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Over the last five years, a considerable amount of emission testing has been conducted at panel plants and other solid wood products manufacturing facilities. The industry believed it would be of value to compile and organize individual plant test data and make the compilation broadly available to the industry. The compilation would be useful to individual plants involved in preparing air quality permit applications, and would also serve to identify source types and pollutants for which little data were available. It was hoped the data gaps identified would eventually be filled by additional testing.

With the support of the American Forest and Paper Association's Wood Products Environmental Task Group, the National Particleboard Association, the American Hardboard Association, and the APA - the Engineered Wood Products Association, the National Council created a computerized Wood Products Database. The database was developed from emission test reports provided by wood products plants. The database contains source sampling data along with associated equipment and relevant process information.

Although the Wood Products Database is intended principally for personal computer use, many potential users expressed a desire for a printed version as well. Because of the large size of the whole database, it was decided to subdivide the printed version into three subsets (particleboard and medium density fiberboard; plywood and oriented strandboard; and combustion units) with each subset contained in a separate technical bulletin. A future additional technical bulletin will cover hardboard, roof insulation board, fiberboard sheathing and specialty fiberboard product plants.

This technical bulletin describes the particleboard and medium density fiberboard portion of the database. The master Wood Products Database has been compiled electronically using a common database software package and is available on diskette.

The data in the appendices of this report are simply a printout of selected portions of the master database. Since computer-based searches are the most efficient means of extracting information from the database, users are encouraged to become familiar with the database structure and associated database software. Spreadsheet software may also be used to access the database, but sorting and querying the database will be more difficult.

Work on the Wood Products Database will continue in 1995. The printed version of the database in these three technical bulletins and the current electronic version now available on diskette represent "Version 1.0". With continued support from the wood products industry, the database will grow, include more diverse information, and become an increasingly useful resource for the industry.

The database was developed by Dr. David H. Word, Research Engineer at the Southern Regional Center. Dr. Word prepared this report. John Milner and Steven Cloutier, Research Technical Associates, assisted in the data compilation. Mr. Milner performed the formidable task of formatting and printing the tables for the report.

Questions and comments on this report and the Wood Products Database are encouraged. Especially useful would be comments regarding the ease-of-use of the computer and printed versions of the database, and suggestions for ways to improve the data organization within the database. All comments should be directed to Dr. Word at 904-377-4708, ext. 241 or to Dr. John Pinkerton at this office.

Very truly yours,

Ronald A. Yeske, PhD.
President

Attachment

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ABSTRACT: A database containing emission sampling data and associated process and equipment information for particleboard and medium density fiberboard (MDF) plants is described. Excluding boiler data, 11 particleboard mills contributed information totaling approximately 320 sample runs and 1300 individual pollutant values and six MDF mills contributed information totaling approximately 100 sample runs and 400 individual pollutant values. Pollutant values are generally expressed as a concentration, a mass rate, and a production based rate. Pollutant values can be linked, through the database, to specific types of equipment and to specific operating or process conditions. Equipment and process information are supplied as received from the mills, therefore the amount of process information associated with a particular pollutant value is variable. The majority of emission measurements is for particulate matter, carbon monoxide, nitrogen oxide, volatile organic compounds, and formaldehyde from wood dryers and presses. Some information is available for other pollutants such as PM_{10} and acetaldehyde and for smaller emission sources such as refiners and sanders.

KEYWORDS: wood panels, air emissions, source sampling, wood products, pollutants, wood dryer, press, emission factor, MDF, particleboard, particulate matter, carbon monoxide, nitrogen oxide, VOC, PM_{10}, formaldehyde

RELATED NCASI PUBLICATIONS:

(1) "A Summary of Gaseous Emission Measurement Data for Reconstituted Building Board Plants," NCASI Special Report No. 89-05 (September 1989).

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PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD AIR EMISSION DATABASES

I INTRODUCTION

This technical bulletin is essentially a "hard copy" of a computerized database accompanied by descriptive material and instructions for its use. The purpose of the database is to provide the wood products industry with available air emission data and a means of segregating those data to fit their specific needs.

Five previous NCASI technical bulletins (Nos. 405, 493, 503, 504 and 657) and Special Report No. 89-05 contain emissions data from wood products facilities. These reports have provided plants with information useful for permitting, emission inventory purposes, and checking their own plant's stack sampling results. Additionally, these reports have provided analyses of measurement methods and the effects of various process parameters on emission levels.

The computerized database project, unlike the projects that resulted in the earlier technical bulletins, was not designed as a "study" or investigation into a certain area. The purposes of this project were to design a database structure that would accommodate wood product plant emission and process data and to compile available information into that structure. Clearly, the industry wanted a database that would allow it to use very specific criteria in selecting a set of emission factors. Additionally, the industry wanted a product that could be updated periodically and that would become increasingly useful over time. The database described in this report is intended to meet the industry's expectations.

The Wood Products Database is available on diskette and is structured for personal computer use. For those comfortable with computers and familiar with database software packages, sorting the data will be quick and relatively easy. Users of this printed copy will also be able to sort and segregate; the process will simply take more time. A form for member companies of NCASI, NPA, APA, AHA and AF&PA to order the database on diskette can be found in Appendix E.

II DATA SOURCES AND DATA QUALITY

In the summer of 1993, the National Particleboard Association (NPA), the American Hardboard Association (AHA) and APA - the Engineered Wood Products Association distributed to their respective members a survey instrument along with a request

for air emission test data. The survey instrument was designed to collect information about the equipment that had been tested, as well as pertinent process and raw material information specific to the testing period.

From inception the idea was not just to gather emission data on a rotary dryer, for example, but to gather data on a direct fired, single pass rotary dryer controlled by a wet electrostatic precipitator drying 50 percent poplar and 50 percent fir and operating at a dryer inlet temperature of 1100°F. For the wood products industry this amount of detail is important because the process and raw material parameters have a considerable impact on certain pollutant emission rates.

Since companies and mills were asked to voluntarily submit their information, the amount and quality of data submitted varied considerably. The amount of process information accompanying the test reports varied from none to complete. Company submitted information concerning the equipment, process and production rate was generally assumed to be correct. In some cases clarification was obtained. Incomplete or unavailable data are simply indicated by a blank space in the database.

In most cases the pollutant concentration and mass emission rate information provided in the stack test report were assumed to be correct. However, unusually high or low sample runs within a set of runs were checked.

Decisions had to be made concerning which data to keep and which to discard. For example, if a press had four vents and only one was tested, the data were generally discarded. If a dryer had two twin cyclones and only one was tested, the mass emission rates were generally doubled and included. If a press had six vents and three were tested, that data may have been included with notes in the comments. For cases in which some assumptions had to be made, the assumptions were generally provided in the comments section of the applicable table. Some reports were simply not used due to lack of process data, lack of information on emission points or for other reasons.

III DATABASE STRUCTURE

A. Introduction

It is important that the user understand the overall structure of the database and how the various tables are related. A general overview will first be provided followed by a more detailed explanation of the individual tables. The particleboard database is in Appendix A, and the medium density fiberboard (MDF) database is in Appendix B. Codes or abbreviations are explained in Appendix C. A glossary and an explanation of column (field) headings are in Appendix D.

The Wood Products Database might be thought of as a set of building blocks that can be reconfigured in numerous ways depending on the user's needs. The Wood Products Database or "master" database is a composite comprised of numerous linked or related files. For the purpose of these written reports, the master database has been subdivided into five smaller databases. They are: (1) oriented strandboard (OSB), (2) plywood, (3) MDF, (4) particleboard, and (5) combustion units.

B. Overview of Structure and Table Links

The structure for the Wood Products Database is provided in Figure 1. With the exception of the MDF database, all of the smaller databases are lacking two or more of the tables shown in Figure 1. Tables are grouped according to type or function and are joined or linked according to common codes.

The Reports Table, which contains stack gas parameters and other information, can be thought of as the heart of the database. It contains one record (row) for every sample run in the database. Each sample run has been assigned a run number, test code and unit code, the combination of which is (and must be) unique to the Reports Table.

Each record (row) in the Reports Table has a corresponding record in one of the "B Tables." The two records are linked through common Test Code/Unit Code/Run Number combinations. The "B Tables" provide process information specific to the individual test run.

Similarly, each record in one of the Pollutant Tables can be linked to either the Reports Table or a "B Table" through its identifying Test Code/Unit Code/Run Number. However, there is not a one-to-one relationship between the records in the Reports Table and the records in the Pollutants Tables. There are two reasons for this: (1) multiple pollutants can be tested for in the same sample run; and (2) multiple methods can be used for the same pollutant in the same sample run. Thus, the Test Code/Unit Code/Run Number combination that represents a single sample run in the Reports Table can occur in more than one pollutant table and more than once in an individual pollutant table.

The "A Tables" contain information about the equipment being tested. Each individual unit (or combination of units) has a unique Unit Code. Since the equipment generally does not change from test to test, neither does the unit code. Thus, a single record in one of the "A Tables" describes the equipment for multiple records in the Reports Table, "B" Tables and Pollutant Tables (see Unit Codes below).

The General Information Table contains information about the facility or mill such as product produced and tree species generally used. The General Information Table and the Reports Table are linked by a Facility Code. These two tables are the

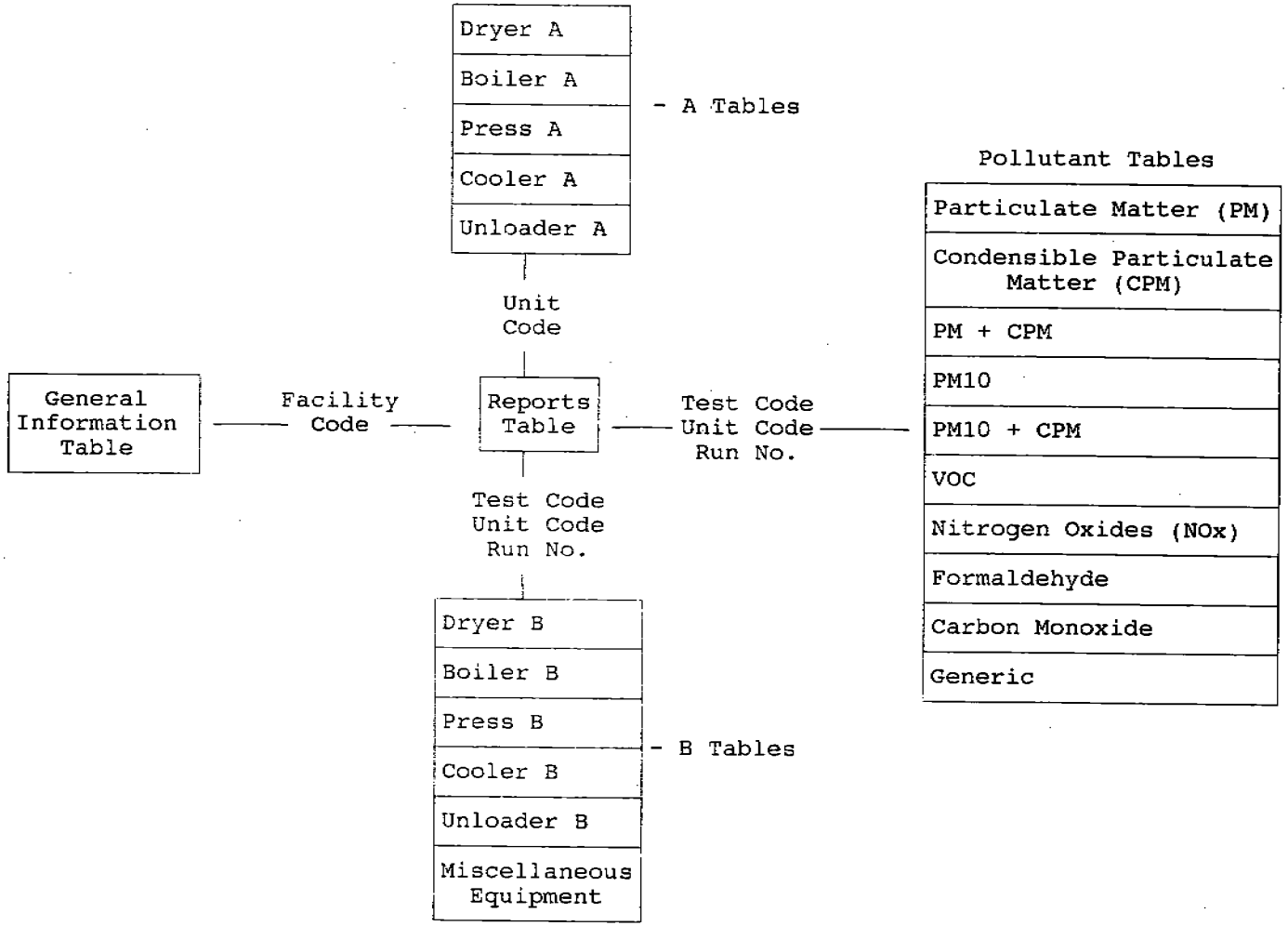

FIGURE 1 DATABASE STRUCTURE

only tables containing this particular code. The major purpose of the General Information Table is to provide a means for sorting the database information by panel or product type. For this printed version, the Wood Products Database has already been segregated by panel type, and the General Information Table is somewhat moot.

C. Unit Codes, Test Codes and Facility Codes

(1) Facility Codes - Each mill that supplied information was assigned a Facility Code. The Facility Code is a three digit number that appears in the General Information Table and the Reports Table. The facility code also is part of each assigned Unit Code and Test Code.

(2) Unit Codes - Unit codes consist of an arbitrary first digit followed by a letter indicating a type of unit and a three digit facility code. If multiple units have a common stack, the first digit is replaced with an X, Y or Z. For example, a press might be assigned a unit code of 1P888 and two dryers venting to a common stack might have a unit code of XD888. The unit code letters and corresponding equipment types are provided in Table 1.

TABLE 1 IDENTIFYING LETTERS USED IN UNIT CODES

D	Dryer	A	Planer
P	Press	E	Screening
B	Boiler	F	Former
C	Cooler	I	Dust Bin or Silo
U	Unloader	M	Mill (hammermill)
		N	Pneumatic Conveyor
		R	Refiner
		S	Sander
		W	Saw
		Z	Miscellaneous

The assignment and use of Unit Codes can best be explained through an example:

In 1988 facility 999 had two single pass dryers each with its own product cyclone and stack. It also had three new triple pass dryers that all vented to a common WESP and stack. In a 1993 modification, the two single pass dryers were connected to a single WESP. Stack test reports for this mill were submitted for 1989 and 1994. All dryers were tested.

For the 1989 test report the two single pass dryers would be coded 1D999 and 2D999. The three triple pass dryers with the common stack would be given the single code XD999. For the 1994 test report the three triple pass dryers did not change and would keep their same unit code (XD999); but the two single pass dryers did change and therefore would be recoded as YD999 for the 1994 report. The old codes (1D999 and 2D999) would remain in the database (Dryer A table) since they are necessary to describe those dryers during the 1989 tests.

(3) Test Codes - Test codes consist of a three digit facility code followed by a six digit number representing the test date and a final letter used to separate test codes with similar dates.

To illustrate, the above example will be expanded. Dryer 1D999 and Dryers XD999 were tested for particulate matter on October 31, 1989. Furthermore, Dryers XD999 were also simultaneously tested for VOC and were simultaneously tested at both the inlet and the outlet of the WESP. Table 2 shows how this information would be coded for the Reports Table.

TABLE 2 EXAMPLE OF TEST CODE ASSIGNMENT

TEST CODE	UNIT CODE	RUN NO.	SAMPLE LOCATION	FLOW (dscfm)	POLL 1	POLL 2
999-103189A	1D999	1	OUT	31,000	PM	
999-103189A	1D999	2	OUT	31,500	PM	
999-103189B	XD999	1	IN	101,000	PM	VOC
999-103189B	XD999	2	IN	110,000	PM	VOC
999-103189C	XD999	1	OUT	102,000	PM	VOC
999-103189C	XD999	2	OUT	109,000	PM	VOC

Note that there are three different test codes - one for Dryer 1D999's test and one each for the inlet and outlet test on Dryers XD999. Note also that PM and VOC samples were given the same test code since these pollutants were sampled for simultaneously.

D. Tables

(1) Introduction - The master database contains 23 tables, 21 of which are in three functional groups: "A" Tables, "B" Tables and Pollutant Tables. An overview of the function of each group, and the two other tables, was provided in Section III B. In this section the purpose and use of each table or group of tables will be discussed in more detail. Tables are described in the order in which they occur in the printed database(s). Column or field headings are explained in Appendix D.

(a) General Information Table - This table provides information on tree species generally used and the form in which the wood is received. The product column (field) is used to sort the database by panel type. The facility code provides a link to the Reports Table.

(b) Reports Table - This table is central to the database and contains all Test Code/Unit Code/Run Number combinations. The table contains basic stack gas parameters and a list of pollutants sampled for in each sample run. The Test Code/Unit Code/Run Number combination of this table will be the link to the "B" Tables and Pollutant Tables for a majority of the queries (questions) that are conducted.

(c) Dryer A Table - This table provides a description of the dryers that were tested. Fields (columns) such as Firing Type and Pollution Control Device contain information (criteria) that can be used to sort the database. In this table the Type Fuel field refers to fuels the dryer is capable of using or the fuel typically used. To sort records by type of fuel burned during the emission tests, the Type Fuel field in the Dryer B Table should be used.

(d) Dryer B Table - This table provides information about dryer operation and other process parameters during the testing period. Criteria such as wood species, type fuel, wood moisture content and dryer temperature can be used to segregate the data.

(e) Press A Table - This table provides general information on the presses that were tested. None of the presses in the database had pollution control devices (PCD) installed, thus PCD information is not included.

(f) Press B Table - This table provides information about the cperation of the presses during the testing period. Numerous criteria are available for sorting the data, but data are scarce in some of the fields.

(g) Cooler A/Cooler B Tables - These tables serve the same purpose as the Press A/Press B Tables but describe cooler, rather than press, operations.

(h) Miscellaneous Equipment Table - This table provides information on units other than presses, dryers, boilers, coolers and unloaders. Codes for the types of miscellaneous equipment are provided in Section III C (1). Pollution control devices and general parameters such as wood species and temperature are provided.

(i) Unloader A/Unloader B Tables - These tables serve the same purpose as the Press A/Press B tables but describe unloader rather than press operations. Note that generally the unloader was considered part of the press, and unloader emissions were not separated. In some cases, however, the unloader emissions were considered separate in the stack test report. In this case, the emissions were kept separate in the database and comments were provided to alert the user.

(j) Pollutant Tables - These tables provide pollutant emission rates generally in several different units. All pollutant tables are identical in structure so that they can be combined or segregated as needed (by computer). Nine of the ten pollutant tables are pollutant specific. One, the Generic Table, contains information on all other pollutants. VOC data were converted to a carbon basis if provided otherwise. Nitrogen oxide data are provided on a NO_2 basis. In a very few cases, insufficient information was provided to determine the basis, and a NO_2 basis was assumed.

E. Structure of the Printed Database Tables

The database tables in Appendices A and B vary from small single page tables to large tables that span several pages horizontally and extend multiple pages vertically. Some of the large tables have hundreds of records (rows) and more than 20 fields (columns), and had to be printed on multiple pages.

The tables have a numbering system to help the user. Each database appendix has a table of contents to help locate the tables. Each table page has table-page-numbers as well as appendix page numbers. The first page of each table has a table-page-number after the title that describes the length and width of the overall table. For example, the first page of the table may have the descriptor Page 1a of 7 (a-c). This indicates that the table rows extend 7 pages "deep" and the table columns extend 3 pages across (a, b, and c). An individual record or row would be read across pages a, b, and c (for example, 2a, 2b, and 2c).

Black lines separating record groups are used to help the reader follow a record across the pages. For those tables that exceed two pages in width, repeated codes are used on the third (c) page as a reference point. ("A Tables" and the General

Information Table do not have record groups; codes are provided on all pages.)

For all tables except the "A Tables" and General Information Table, the records are provided in numerical order first by the Facility Code portion (first three digits) of the Test Code and then by the next six digits.

F. An Example of Database Use

(1) Introduction - An example is provided that may help the user understand how the tables are related. This section is intended for users of the printed database or spreadsheet users. Database software users should be able to query the database easily once the structure and links are understood.

(2) Example - MDF Dryer VOC Data

(a) Step 1 - Turn to the MDF VOC Table in Appendix B (last table). Select the records (rows) in which a "D" (for dryer) occurs in the Unit Code (total of 18 records). Record the Test Code, Unit Code and number of runs for each data set (total of six sets).

Note that data exist for three mills and seven different dryers. Either record the emissions data or mark the place in the database.

(b) Step 2 - Open the MDF Dryer B Table and search for the Test Code/Unit Code/Run Number combinations recorded from the MDF VOC Table. Review and record pertinent data associated with each set of sample runs. For example, Dryer 1D173 was drying a furnish with 50 percent hardwood and 50 percent softwood, the dryer was indirectly heated, dried green material (100 percent moisture) and operated at an inlet temperature of 302°F.

(c) Step 3 - Open the MDF Dryer A Table and search for the six Unit Codes. Review the information and comments provided on each dryer. Is anything useful? If so, record the information.

(d) Step 4 - Open the MDF Reports Table and search for the Test Code/Unit Code/Run Number combinations from the MDF VOC Table. Is any information pertinent or useful? If so, record that information and its associated codes.

(e) Step 5 - Return to the MDF VOC Table or the notes from that table. Compare the emission rates to the corresponding process data. Determine what process variables affect the emission rates. Determine which data are suitable for the existing need.

IV DATA NEEDS

A. Introduction

One purpose that a database can serve is to indicate areas in which data are lacking or scarce. Tables 3 through 7 in this section provide information on broad to relatively narrow categories of data contained in the MDF and particleboard databases. These tables can be used as an aid when seeking information, but they can also be used to identify "gaps" or "weak spots" in the overall database.

This section will discuss data that are scarce or lacking in the Wood Products Database and not data that are scarce within the industry. Most of the data included in the Wood Products Database was obtained from a request for information made approximately 20 months ago. Since that time, a considerable amount of testing has been conducted. Additionally, only 53 of several hundred US panel plants responded.

General data needs for the entire Wood Products industry are discussed in the following section. Subsequently, specific needs for the MDF and particleboard databases are discussed.

B. General Needs

Hardboard, roof insulation board, fiberboard sheathing, lumber and hardwood-plywood data are either completely lacking or not ready to be published at this time (with the exception of boiler data from some facilities manufacturing these products). Some hardboard process emissions data were received and a small amount of the data were usable, but a decision was made to initiate a second effort to solicit hardboard data and present the data separately in a future technical bulletin. Usable data were not received from the roof insulation board, fiberboard sheathing or "specialty fiberboard products" segments of the forest products industry. Similarly, data were not received from the hardwood-plywood and hardwood-lumber industries.

NCASI does have some softwood (mostly pine) lumber kiln emissions data. Most of these data were received in late December, 1994 and have not yet been processed and input into the database.

Emissions data accompanied by production information for miscellaneous small sources are needed. Very limited data on sanders, saws, planers, hammermills, refiners, formers, transfer cyclones, pneumatic conveying systems, etc. have been obtained. In many cases production data were not submitted with the stack test data and emission data were available only on a pound per hour basis. For most of these small sources the only pollutant tested for was front half or filterable particulate matter.

Additional data from press vents are needed. OSB is the only panel type for which a substantial amount of press data exists. Specific press testing needs are discussed by panel type in the following section.

Hazardous air pollutant (HAP) data are needed. The majority of HAP data (other than for formaldehyde) in the master database are from EPA sampling efforts at two particleboard mills and one MDF mill. The variability of some test results is such that they may be of questionable value. For some compounds, most of the sampling results are for only one type of source. For example, 21 of 25 phenol sample runs are from OSB presses or unloaders.

Emission test results from sources equipped with newer control technologies are needed. For example, there are no results for units controlled by Regenerative Thermal Oxidizers (RTOs) or biofilters in the database.

C. Particleboard Data Needs

Out of 319 total particleboard sampling runs, only 30 were conducted on presses (Table 3). Formaldehyde is the only pollutant for which a significant amount of particleboard press data exist. For all other pollutants and HAPs, particleboard press data are needed.

PM_{10} data are needed for particleboard dryers. Test results in the database are from dryers with cyclones or EFBs (Table 4). The lack of data in this category may be the result of the lack of a good PM_{10} test method to use on wet sources. The particleboard dryer data are reasonably well distributed in terms of particulate matter control devices and the two broad categories - hardwood and softwood (Table 5). Data are unavailable for many specific wood species. For example, dryer VOC data are lacking for spruce, white fir, hemlock, poplar, larch and other wood types.

D. MDF Data Needs

The MDF database is approximately one-third the size of the particleboard database and much less diverse. The available data are from only six mills, ten dryers and five presses (Table 6), an insufficient number to provide a good representative sample of the MDF industry. More data are needed in general and, specifically, data are needed from mills that did not participate in the initial effort.

Data are needed for dryer control devices other than cyclones and for wood species other than pine (Table 7). The non-pine data were either provided as simply softwood or as softwood/hardwood mix. Thus, some northern and western softwood species, as well as hardwood species, are not identified.

TABLE 3 PARTICLEBOARD DATABASE SUBDIVISIONS

No. of Mills	11		
No. of Runs	319		
No. of Dryers	30		
No. of Dryer Runs	221		
No. of Presses	8		
No. of Press Runs	30		
No. of Coolers	5		
No. of Cooler Runs	12		
No. of Miscellaneous Equipment Runs	56		
No. of Particulate Matter Runs (PM)	175	Dryer	117
		Press	4
		Cooler	1
		Misc.	53
No. of Condensible Particulate Runs (CPM)	96	Dryer	96
		Press	0
		Cooler	0
No. of PM + CPM Runs Total Particulate	114	Dryer	112
		Press	2
		Cooler	0
No. of PM_{10} Runs	23	Dryer	19
		Press	3
		Cooler	1
No. of PM_{10} + CPM Runs	12	Dryer	8
		Press	3
		Cooler	1
No. of VOC Runs	109	Dryer	87
		Press	15
		Cooler	6
		Misc.	1

TABLE 3 (Cont'd) PARTICLEBOARD DATABASE SUBDIVISIONS

No. of Carbon Monoxide Runs	95	Dryer	90
		Press	5
		Cooler	0
No. of Nitrogen Oxide Runs	72	Dryer	72
		Press	0
		Cooler	0
No. of Formaldehyde Runs	86	Dryer	54
		Press	20
		Cooler	11
		Misc.	1
No. of Generic Pollutant Runs (Aldehydes, ketones, HAPs, etc.)	510	Dryer	423
		Press	57
		Cooler	30

TABLE 4 PARTICLEBOARD DATABASE

Further Subdivision - Dryer Control Devices

POLLUTANT	CONTROL DEVICE	NO. OF RUNS
Particulate Matter (PM)	Cyclone	42
	EFB	38
	Incineration	3
	Multiclone	13
	Packed Bed Adsorber	6
	Wet ESP	15
PM + CPM (Total Particulate Matter)	Cyclone	28
	EFB	34
	Incineration	3
	Multiclone	10
	Packed Bed Adsorber	6
	Sand Filter	16
	Wet ESP	15
PM_{10}	Cyclone	10
	EFB	9
PM_{10} + CPM	Cyclone	4
	EFB	4

TABLE 5 PARTICLEBOARD DATABASE

Further Subdivision - Dryers and Wood Species

POLLUTANT	WOOD SPECIES	NO. OF RUNS
Condensible Particulate Matter (CPM)	100% Aspen	6
	90% Douglas Fir	18
	100% Hardwood (unspecified)	24
	65% Hardwood, 35% Pine	7
	>95% Pine	13
	75% Pine, 25% Other	6
	60% Pine, 40% Hardwood	3
	No Data on Wood Species	19
Volatile Organic Compounds (VOC)	100% Hardwood	15
	55% Hardwood, 45% Softwood	12
	65% Hardwood, 35% Pine	4
	75% Pine, 25% Other	9
	60% Pine, 40% Hardwood	6
	>95% Pine	16

TABLE 6 MEDIUM DENSITY FIBERBOARD DATABASE SUBDIVISIONS

No. of Mills	6		
No. of Runs	112		
No. of Dryers	10		
No. of Dryer Runs	61		
No. of Presses	5		
No. of Press Runs	30		
No. of Coolers	1		
No. of Cooler Runs	8		
No. of Miscellaneous Equipment Runs	10		
No. of Unloaders	1		
No. of Unloader Runs	3		
No. of Particulate Matter Runs (PM)	49	Dryer	23
		Press	11
		Cooler	5
		Former	6
		Misc.	4
No. of Condensible Particulate Runs (CPM)	31	Dryer	20
		Press	8
		Former	3
No. of PM + CPM Runs (Total Particulate)	39	Dryer	26
		Press	10
		Former	3
No. of PM_{10} Runs	28	Dryer	20
		Press	5
		Cooler	3
No. of PM_{10} + CPM Runs	12	Dryer	6
		Press	3
		Cooler	3
No. of VOC Runs	34	Dryer	20
		Press	11
		Cooler	3

TABLE 6 (Cont'd) MEDIUM DENSITY FIBERBOARD DATABASE SUBDIVISIONS

No. of Carbon Monoxide Runs	19	Dryer	11
		Press	8
No. of Nitrogen Oxide Runs	2	Press	2
No. of Formaldehyde Runs	42	Dryer	23
		Press	14
		Unloader	3
		Cooler	2
No. of Generic Pollutant Runs (Aldehydes, ketones, HAPs, etc.)	154	Dryer	100
		Press	28
		Cooler	26

TABLE 7 MEDIUM DENSITY FIBERBOARD DATABASE

Further Subdivision - Dryers and Wood Species

POLLUTANT	WOOD SPECIES	NO. OF RUNS
Condensible Particulate Matter (CPM)	100% Unspecified Softwood	6
	50% Softwood and 50% Hardwood	3
	100% Pine	11
Volatile Organic Compounds (VOC)	50% Softwood and 50% Hardwood	3
	100% Pine	17

The ratio of press runs to dryer runs was better for MDF than for any other board type. But, for eight of the ten pollutant categories, there were 11 or fewer press sample runs. More MDF press data are needed in all pollutant categories.

V CONCLUSIONS

The Wood Products Database is not a finished product but represents the first step of a broad-based effort to compile and organize air emission data for the wood products industry. In computer terms, it might be thought of as "Version 1.0."

At this point the database size appears to be much greater than its diversity. For example, hundreds of dryer particulate matter samples are compiled, but there are no data for methanol from either dryers or presses. The database contains 33 condensible particulate matter runs for OSB dryers drying poplar but absolutely no data for hardwood plywood processes. Other examples could be given, the point being that the amount of data is reasonably large, but the diversity needs to be improved.

More data are needed to improve the database. Diversity of sampling results should increase with the addition of newer sampling data, since the 1994 and 1995 testing, compared to past sampling, has been much broader in scope. Participation from additional mills would also improve the database. It is hoped this report and the availability of the computerized database will stimulate increased participation from the industry.

Industry support needs to continue for the database to continue growing in size and value to the industry. Mills who have (or will have) test data that will fill needs identified in Section IV are urged to submit that data for incorporation into the database. Mills who have not yet participated are also urged to submit data and not rely on "other mills'" participation. Cooperation and teamwork are needed for the future success of this project.

APPENDIX A

PARTICLEBOARD DATABASE

APPENDIX A

PARTICLEBOARD DATABASE

TABLE OF CONTENTS

PARTICLEBOARD - GENERAL INFORMATION TABLE, page 1a of 1(a)

Fac Code	Product	Wood Species 1	% Species 1	Wood Species 2	% Species 2	Wood Species 3	% Species 3	Raw Wood Mat'l 1	Raw Wood Mat'l 2	Raw Wood Mat'l 3
022	PB	SY PINE	100					PSHAV		
030	PB	PINE SP	95	HWOOD	5			PSHAV	SAWD	WTC
039	PB	HWOOD	55	SWOOD	45			WTC		
043	PB	SY PINE	95	HWOOD	5			PSHAV	SKERF	TRIM
045	PB	SY PINE	95	HWOOD	5			PSHAV	SAWD	
156	PB	UFIR	70	PINE SP	30			PSHAV	SAWD	TRIM
166	PB	DFIR		HEM						
167	PB	PINE SP		ASPEN		HWOOD		SKERF	PSHAV	
182	PB	DFIR	90	HWOOD	4	UWOOD	6	DCHP	PSHAV	TRIM
202	PB	PINE SP	75	UFIR	25			PSHAV		
228	PB	SY PINE	80	HWOOD	20			LOG	SAWD	

PARTICLEBOARD - REPORTS TABLE, page 1a of 9(a-c)

Test Code	Unit Code	Run	Production Rate (Units)	Production Rate (Units)	Fac Code	One to one?	Sam. Loc.	Stack Flow (dscfm)	Stack Temperature (F)	Stack Moisture (%)
022-082190A	1F022	1			022	Y	OUT	10500	114	
022-102689A	1E022	1			022	Y	OUT	31172	93	1.7
022-102689A	1E022	2			022	Y	OUT	31203	83	2
022-102689B	1D022	1			022	Y	OUT	28958	142	3.8
022-102689B	1D022	2			022	Y	OUT	29376	141	3.5
022-102689C	2D022	1			022	Y	OUT	25381	133	2.1
022-102689C	2D022	2			022	Y	OUT	28221	132	2.4
022-102689D	1M022	1			022	N	OUT	30888	92	1.7
022-102689D	1M022	2			022	N	OUT	30888	92	1.7
022-102689E	2M022	1			022	N	OUT	30512	83	1.8
022-102689E	2M022	2			022	N	OUT	30512	90	1.8
022-102789A	2E022	1			022	Y	OUT	31977	73	1.7
022-102789A	2E022	2			022	Y	OUT	31487	92	1.7
022-112790A	3M022	1			022	N	OUT	30062	89	6
022-112790A	3M022	2			022	N	OUT	29094	104	4.7
022-112790A	3M022	3			022	N	OUT	28669	100	4.5
022-112790B	4M022	1			022	N	OUT	28278	104	4.9
022-112790B	4M022	2			022	N	OUT	27504	102	5.2
022-112790B	4M022	3			022	N	OUT	27993	86	5
030-011993A	1D030	1	13.7 ODTH		030	Y	OUT	34132	127	5.2
030-011993A	1D030	2	15.3 ODTH		030	Y	OUT	31946	123	4.4
030-011993A	1D030	3	11.7 ODTH		030	Y	OUT	32833	128	4.5
030-011993B	1D030	1	15.1 ODTH		030	Y	OUT	31896		
030-011993B	1D030	2	14.8 ODTH		030	Y	OUT	33614		
030-011993B	1D030	3	15.8 ODTH		030	Y	OUT	33869		
030-011993C	1D030	1	15.4 ODTH		030	Y	OUT	31933	115	3.4
030-011993C	1D030	2	17.4 ODTH		030	Y	OUT	33570	128	5.8
030-011993C	1D030	3	16.4 ODTH		030	Y	OUT	32976	128	3.7
030-011993D	1D030	1	15.2 ODTH		030	Y	OUT	33062	128	5.9
030-011993D	1D030	2	16.7 ODTH		030	Y	OUT	30495	126	5.1
030-011993D	1D030	3	16.2 ODTH		030	Y	OUT	35722	123	4.8
030-011993E	1D030	1	9.96 ODTH		030	Y	OUT	31870	132	5.8
030-011993E	1D030	2	15.5 ODTH		030	Y	OUT	28024	123	4.7
030-011993E	1D030	3	15.4 ODTH		030	Y	OUT	30832	125	5.1
030-011993F	1D030	1	15.3 ODTH		030	Y	OUT	31870	132	5.8
030-011993F	1D030	2	16.3 ODTH		030	Y	OUT	28024	123	4.7
030-011993F	1D030	3	15.4 ODTH		030	Y	OUT	30832	125	5.1
030-012093A	2D030	1	8.28 ODTH		030	Y	OUT	30870	155	8
030-012093A	2D030	2	8.07 ODTH		030	Y	OUT	30381	143	6.8
030-012093A	2D030	3	2.49 ODTH		030	Y	OUT	34090	151	5.1
030-012093B	2D030	1	9.02 ODTH		030	Y	OUT	31660		
030-012093B	2D030	2	6.08 ODTH		030	Y	OUT	34212		
030-012093B	2D030	3	7.44 ODTH		030	Y	OUT	30653		

PARTICLEBOARD - REPORTS TABLE, page 1b

Pollutant 1	Pollutant 2	Pollutant 3	Pollutant 4	Pollutant 5	Pollutant 6	Pollutant 7	Pollutant 8	Pollutant 9
PM								
PM								
PM								
PM								
PM								
PM								
PM								
PM								
PM								
PM								
PM								
PM								
PM								
PM								
PM								
PM								
PM								
ALD/KET	FOR							
ALD/KET	FOR							
ALD/KET	FOR							
CO	NOX	VOC						
CO	NOX	VOC						
CO	NOX	VOC						
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM10								
PM10								
PM10								
HAPS								
HAPS								
HAPS								
HAPS	FOR							
HAPS	FOR							
HAPS	FOR							
ALD/KET	FOR							
ALD/KET	FOR							
ALD/KET	FOR							
CO	NOX	VOC						
CO	NOX	VOC						
CO	NOX	VOC						

PARTICLEBOARD - REPORTS TABLE, page 2a

Test Code	Unit Code	Run	Production Rate (Units)	Production Rate (Units)	Fac Code	One to one?	Sam. Loc.	Stack Flow (dscfm)	Stack Temperature (F)	Stack Moisture (%)
030-012093C	2D030	1	10.7 ODTH		030	Y	OUT	33672	159	6.9
030-012093C	2D030	2	10.8 ODTH		030	Y	OUT	34079	153	5.3
030-012093C	2D030	3	6.96 ODTH		030	Y	OUT	33838	152	5.1
030-012093D	2D030	1	14.0 ODTH		030	Y	OUT	30153	156	20.3
030-012093D	2D030	2	6.70 ODTH		030	Y	OUT	26871	152	17.3
030-012093D	2D030	3	8.04 ODTH		030	Y	OUT	34240	152	19
030-012093E	2D030	1	9.19 ODTH		030	Y	OUT	30948	152	7.3
030-012093E	2D030	2	9.25 ODTH		030	Y	OUT	31610	145	7.8
030-012093E	2D030	3	7.33 ODTH		030	Y	OUT	30620	155	7.3
030-012093F	2D030	1	8.67 ODTH		030	Y	OUT	30948	152	7.3
030-012093F	2D030	2	10.0 ODTH		030	Y	OUT	31610	145	7.8
030-012093F	2D030	3	8.22 ODTH		030	Y	OUT	30620	155	7.3
030-012193A	1P030	1	17.64 MSF 3/4/hr		030	N	OUT	117997	84	1.3
030-012193A	1P030	2	10.51 MSF 3/4/hr		030	N	OUT	124851	80	1.6
030-012193A	1P030	3	15.90 MSF 3/4/hr		030	N	OUT	124868	67	1.1
030-012193B	1P030	1	17.44 MSF 3/4/hr		030	N	OUT	119304	80	1.9
030-012193C	1P030	1	16.50 MSF 3/4/hr		030	N	OUT	121425		
030-012193C	1P030	2	10.50 MSF 3/4/hr		030	N	OUT	124851		
030-012193C	1P030	3	15.90 MSF 3/4/hr		030	N	OUT	124868		
039-082791A	1D039	1	45.6 ODTH		039	Y	OUT	37226	176	24.6
039-082791A	1D039	2	45.6 ODTH		039	Y	OUT	37003	177	24.2
039-082791A	1D039	3	45.2 ODTH		039	Y	OUT	37159	178	24.1
039-102692A	1D039	1	50.15 ODTH		039	Y	OUT	42800		
039-102692A	1D039	2	48.88 ODTH		039	Y	OUT	44900		
039-102692A	1D039	3	50.56 ODTH		039	Y	OUT	44800		
039-102692B	XD039	1	20.54 ODTH		039	N	OUT	28900		
039-102692B	XD039	2	19.97 ODTH		039	N	OUT	32300		
039-102692B	XD039	3	20.95 ODTH		039	N	OUT	31800		
039-102692C	YD039	1	19.27 ODTH		039	N	OUT	28900		
039-102692C	YD039	2	19.27 ODTH		039	N	OUT	32300		
039-102692C	YD039	3	19.27 ODTH		039	N	OUT	31800		
039-102692D	5D039	1	10.34 ODTH		039	Y	OUT	18700		
039-102692D	5D039	2	10.34 ODTH		039	Y	OUT	18800		
039-102692D	5D039	3	10.34 ODTH		039	Y	OUT	19400		
039-102692E	1P039	1	33.0 MSF 3/4/hr		039	N	OUT	177200		
039-102692E	1P039	2	33.0 MSF 3/4/hr		039	N	OUT	171500		
039-102692E	1P039	3	33.0 MSF 3/4/hr		039	N	OUT	171200		
043-032492A	1I043	1	7.23 ODTH		043	Y	OUT	1464	78	1.6
043-032492A	1I043	2	7.23 ODTH		043	Y	OUT	1796	86	1.7
043-032492A	1I043	3	7.23 ODTH		043	Y	OUT	1838	90	2
043-032592A	3I043	1	.85 WET ton/hr		043	Y	OUT	3299	78	1.1
043-032592A	3I043	2	.80 WET ton/hr		043	Y	OUT	3307	85	0.9
043-032592A	3I043	3	.73 WET ton/hr		043	Y	OUT	3278	84	1

PARTICLEBOARD - REPORTS TABLE, page 2b

Pollutant 1	Pollutant 2	Pollutant 3	Pollutant 4	Pollutant 5	Pollutant 6	Pollutant 7	Pollutant 8	Pollutant 9
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM10								
PM10								
PM10								
HAPS								
HAPS								
HAPS								
HAPS	FOR							
HAPS	FOR							
HAPS	FOR							
ALD/KET	FOR							
ALD/KET	FOR							
ALD/KET	FOR							
PM10	PM	PM10&CPM						
VOC								
VOC								
VOC								
PM10								
PM10								
PM10								
VOC	FOR	CO						
VOC	FOR	CO						
VOC	FOR	CO						
VOC	FOR	CO						
VOC	FOR	CO						
VOC	FOR	CO						
VOC	FOR	CO						
VOC	FOR	CO						
VOC	FOR	CO						
VOC	FOR	CO						
VOC	FOR	CO						
VOC	FOR	CO						
VOC	FOR	CO						
VOC	FOR	CO						
PM								
PM								
PM								
PM								
PM								
PM								

PARTICLEBOARD - REPORTS TABLE, page 2c

Test Code	Run	Comments
030-012093C	1	
030-012093C	2	
030-012093C	3	
030-012093D	1	
030-012093D	2	
030-012093D	3	
030-012093E	1	Semivolatile HAPS
030-012093E	2	Semivolatile HAPS
030-012093E	3	Semivolatile HAPS
030-012093F	1	Volatile HAPS
030-012093F	2	Volatile HAPS
030-012093F	3	Volatile HAPS
030-012193A	1	
030-012193A	2	
030-012193A	3	
030-012193B	1	
030-012193C	1	Continuous emission monitoring data for VOC is available in report.
030-012193C	2	Continuous emission monitoring data for VOC is available in report.
030-012193C	3	Continuous emission monitoring data for VOC is available in report.
039-082791A	1	
039-082791A	2	
039-082791A	3	
039-102692A	1	
039-102692A	2	
039-102692A	3	
039-102692B	1	
039-102692B	2	
039-102692B	3	
039-102692C	1	
039-102692C	2	
039-102692C	3	
039-102692D	1	
039-102692D	2	
039-102692D	3	
039-102692E	1	7 press vents - All tested ; but not simultaneously
039-102692E	2	7 press vents - All tested ; but not simultaneously
039-102692E	3	7 press vents - All tested ; but not simultaneously
043-032492A	1	Sanderdust cyclone for fuel bin.
043-032492A	2	Sanderdust cyclone for fuel bin.
043-032492A	3	Sanderdust cyclone for fuel bin.
043-032592A	1	Hogged wood refuse silo's baghouse.
043-032592A	2	Hogged wood refuse silo's baghouse.
043-032592A	3	Hogged wood refuse silo's baghouse.

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PARTICLEBOARD - REPORTS TABLE, page 3a

Test Code	Unit Code	Run	Production Rate (Units)	Production Rate (Units)	Fac Code	One to one?	Sam. Loc.	Stack Flow (dscfm)	Stack Temperature (F)	Stack Moisture (%)
043-032592B	1M043	1	10.6 ODTH		043	N	OUT	35592	85	2.3
043-032592B	1M043	2	7.9 ODTH		043	N	OUT	36580	85	2.2
043-032592B	1M043	3	9.4 ODTH		043	N	OUT	36356	86	1.7
043-032692A	1F043	1			043	Y	OUT	11796	98	1.3
043-032692A	1F043	2			043	Y	OUT	11854	99	1.2
043-032692A	1F043	3			043	Y	OUT	11700	95	1.9
043-040192A	1W043	1	21.4 MSF 3/4/hr	66,000 wet lb/hr	043	Y	OUT	22727	67	0.9
043-040192A	1W043	2	20.7 MSF 3/4/hr	63,000 wet lb/hr	043	Y	OUT	23041	70	0.5
043-040192A	1W043	3	28.9 MSF 3/4/hr	90,000 wet lb/hr	043	Y	OUT	22761	70	0.7
043-040192B	3S043	1	16.5 MSF 3/4/hr	51,500 wet lb/hr	043	N	OUT	33725	84	0.4
043-040192B	3S043	2	18.9 MSF 3/4/hr	59,000 wet lb/hr	043	N	OUT	33997	81	0.7
043-040192B	3S043	3	28.0 MSF 3/4/hr	87,400 wet lb/hr	043	N	OUT	33797	74	0.9
043-040193A	3M043	1	15.0 ODTH		043	N	OUT	30815	83	3.3
043-040193A	3M043	2	15.0 ODTH		043	N	OUT	30848	94	3
043-040193A	3M043	3	15.0 ODTH		043	N	OUT	30639	90	2.8
043-040193B	4M043	1	13.6 ODTH		043	N	OUT	31085	82	2
043-040193B	4M043	2	13.6 ODTH		043	N	OUT	32172	72	1.6
043-040193B	4M043	3	13.6 ODTH		043	N	OUT	31281	80	1.3
043-040992A	2M043	1			043	N	OUT	30953	109	5.1
043-040992A	2M043	2			043	N	OUT	28524	115	5.1
043-040992A	2M043	3			043	N	OUT	28932	121	4.3
043-040992B	1Z043	1	32.3 ODTH		043	N	OUT	32730	98	1.8
043-040992B	1Z043	2	32.3 ODTH		043	N	OUT	33308	101	2.4
043-040992B	1Z043	3	30.8 ODTH		043	N	OUT	32814	95	2.4
043-042192A	1D043	1	10.4 ODTH		043	Y	OUT	23388	130	4.2
043-042192A	1D043	2	10.3 ODTH		043	Y	OUT	27859	139	4.3
043-042192A	1D043	3	10.4 ODTH		043	Y	OUT	28532	138	4
043-042192B	2D043	1	16.92 ODTH		043	Y	OUT	27533	149	6.1
043-042192B	2D043	2	18.34 ODTH		043	Y	OUT	26411	161	7.7
043-042192B	2D043	3	18.20 ODTH		043	Y	OUT	25922	169	6.2
043-042392A	1S043	1	25.5 MSF 3/4/hr	87,022 lb/hr	043	N	OUT	19326	118	1.2
043-042392A	1S043	2	24.6 MSF 3/4/hr	83,948 lb/hr	043	N	OUT	19780	122	1.6
043-042392A	1S043	3	20.6 MSF 3/4/hr	70,418 lb/hr	043	N	OUT	19228	118	2.1
043-042392B	2S043	1	25.5 MSF 3/4/hr	87,000 lb/hr	043	N	OUT	32462	101	1.7
043-042392B	2S043	2	24.6 MSF 3/4/hr	84,000 lb/hr	043	N	OUT	33782	105	1.4
043-042392B	2S043	3	20.6 MSF 3/4/hr	70,000 lb/hr	043	N	OUT	32043	111	1.5
045-041593A	1D045	1	14.8 ODTH		045	Y	OUT	35288		

PARTICLEBOARD - REPORTS TABLE, page 3b

Pollutant 1	Pollutant 2	Pollutant 3	Pollutant 4	Pollutant 5	Pollutant 6	Pollutant 7	Pollutant 8	Pollutant 9
PM								
PM								
PM								
PM								
PM								
PM								
PM								
PM								
PM								
PM								
PM								
PM								
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PM								
PM								
PM								
PM								
PM								
PM								
PM								
PM								
PM10	PM10&CPM	CPM	PM	FOR	CO	NOX	VOC	

PARTICLEBOARD - REPORTS TABLE, page 3c

Test Code	Run	Comments
043-032592B	1	Pallman mills' cyclone.
043-032592B	2	Pallman mills' cyclone.
043-032592B	3	Pallman mills' cyclone.
043-032692A	1	This system provides fresh air (for classification) to the top & bottom face formers; cyclone followed by baghouse cleans exit stream.
043-032692A	2	This system provides fresh air (for classification) to the top & bottom face formers; cyclone followed by baghouse cleans exit stream.
043-032692A	3	This system provides fresh air (for classification) to the top & bottom face formers; cyclone followed by baghouse cleans exit stream.
043-040192A	1	This is a globe trim saw; lb/hr production figures are for weight of panels processed.
043-040192A	2	This is a globe trim saw; lb/hr production figures are for weight of panels processed.
043-040192A	3	This is a globe trim saw; lb/hr production figures are for weight of panels processed.
043-040192B	1	This is a baghouse that receives emissions from the top fine grit sander heads.
043-040192B	2	This is a baghouse that receives emissions from the top fine grit sander heads.
043-040192B	3	This is a baghouse that receives emissions from the top fine grit sander heads.
043-040193A	1	Bauer Mills Cyclone
043-040193A	2	Bauer Mills Cyclone
043-040193A	3	Bauer Mills Cyclone
043-040193B	1	Pallman Mills Cyclone
043-040193B	2	Pallman Mills Cyclone
043-040193B	3	Pallman Mills Cyclone
043-040992A	1	Bauer mills cyclone
043-040992A	2	Bauer mills cyclone
043-040992A	3	Bauer mills cyclone
043-040992B	1	Forming line reject system; baghouse.
043-040992B	2	Forming line reject system; baghouse.
043-040992B	3	Forming line reject system; baghouse.
043-042192A	1	Face dryer
043-042192A	2	Face dryer
043-042192A	3	Face dryer
043-042192B	1	Core dryer
043-042192B	2	Core dryer
043-042192B	3	Core dryer
043-042392A	1	Sander Baghouse - this baghouse handles dust - from top & bottom coarce grit sander heads; Production rate in lbs/hr is for panel weight processed.
043-042392A	2	Sander Baghouse - this baghouse handles dust - from top & bottom coarce grit sander heads; Production rate in lbs/hr is for panel weight processed.
043-042392A	3	Sander Baghouse - this baghouse handles dust - from top & bottom coarce grit sander heads; Production rate in lbs/hr is for panel weight processed.
043-042392B	1	This is a baghouse receiving emissions from the bottom fine grit sander heads.
043-042392B	2	This is a baghouse receiving emissions from the bottom fine grit sander heads.
043-042392B	3	This is a baghouse receiving emissions from the bottom fine grit sander heads.
045-041593A	1	

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PARTICLEBOARD - REPORTS TABLE, page 4a

Test Code	Unit Code	Run	Production Rate (Units)	Production Rate (Units)	Fac Code	One to one?	Sam. Loc.	Stack Flow (dscfm)	Stack Temperature (F)	Stack Moisture (%)
045-041593A	1D045	2	17.5 ODTH		045	Y	OUT	32484		
045-041593B	2D045	1	20.84 ODTH		045	Y	OUT	30445		
045-041593B	2D045	2	25.5 ODTH		045	Y	OUT	29500		
156-022087A	XD156	1	16,103 MSF 3/4/hr	23.6 ODTH	156	N	OUT	11191	159.3	29.96
156-022087A	XD156	2	16,103 MSF 3/4/hr	23.6 ODTH	156	N	OUT	10563	161.3	31.98
156-032191A	XD156	1	19.095 MSF 3/4/hr	28.0 ODTH	156	N	OUT	8951	149	30
156-032191A	XD156	2	19.833 MSF 3/4/hr	29.1 ODTH	156	N	OUT	7870	158	33
156-032191A	XD156	3	19.095 MSF 3/4/hr	28.0 ODTH	156	N	OUT	6460	162	30
156-051090A	XD156	1	20.370 MSF 3/4/hr	29.9 ODTH	156	N	OUT	11539	144	21.1
156-051090A	XD156	2	20.0 MSF 3/4/hr	29.3 ODTH	156	N	OUT	10681	144	22.2
156-051090A	XD156	3	20.556 MSF 3/4/hr	30.1 ODTH	156	N	OUT	10639	143	22.5
156-061688A	XD156	1	17.181 MSF 3/4/hr	25.2 ODTH	156	N	OUT	9172	179.3	43.21
156-061688A	XD156	2	17.183 MSF 3/4/hr	25.2 ODTH	156	N	OUT	12014	153.3	21.96
156-061688A	XD156	3	17.190 MSF 3/4/hr	25.2 ODTH	156	N	OUT	9137	157.3	24.52
156-062592A	XD156	1	22.914 MSF 3/4/hr	33.6 ODTH	156	N	OUT	13252	146	31
156-062592A	XD156	2	22.914 MSF 3/4/hr	33.6 ODTH	156	N	OUT	12685	145	31
156-062592A	XD156	3	22.914 MSF 3/4/hr	33.6 ODTH	156	N	OUT	11279	148	31
156-090789A	XD156	1	20.294 MSF 3/4/hr	29.8 ODTH	156	N	OUT	12877	159.3	30.8
156-090789A	XD156	2	20.294 MSF 3/4/hr	29.8 ODTH	156	N	OUT	12549	159.3	30.4
166-092892A	3D166	1			166	Y	OUT	33673		
166-092892A	3D166	2	6.1 ODTH		166	Y	OUT	33668		
166-092892A	3D166	3	5.9 ODTH		166	Y	OUT	34035		
166-092992A	4D166	1	11.6 ODTH		166	Y	OUT	30406		

PARTICLEBOARD - REPORTS TABLE, page 4b

Pollutant 1	Pollutant 2	Pollutant 3	Pollutant 4	Pollutant 5	Pollutant 6	Pollutant 7	Pollutant 8	Pollutant 9
PM10	PM10&CPM	CPM	PM	FOR	CO	NOX	VOC	
PM10	PM10&CPM	CPM	PM	FOR	CO	NOX	VOC	
PM10	PM10&CPM	CPM	PM	FOR	CO	NOX	VOC	
PM&CPM	CO							
PM&CPM	CO							
PM&CPM	NOX	CO						
PM&CPM	NOX	CO						
PM&CPM	NOX	CO						
PM&CPM								
PM&CPM								
PM&CPM								
PM&CPM								
PM&CPM								
PM&CPM								
PM&CPM	NOX	CO						
PM&CPM	NOX	CO						
PM&CPM	NOX	CO						
PM&CPM								
PM&CPM								
PM	CPM	PM&CPM	VOC	NOX	CO	SO2	FOR	
PM	CPM	PM&CPM	VOC	NOX	CO	SO2	FOR	
PM	CPM	PM&CPM	VOC	NOX	CO	SO2	FOR	
PM	CPM	PM&CPM	VOC	NOX	CO	SO2	FOR	

PARTICLEBOARD - REPORTS TABLE, page 5a

Test Code	Unit Code	Run	Production Rate (Units)	Production Rate (Units)	Fac Code	One to one?	Sam. Loc.	Stack Flow (dscfm)	Stack Temperature (F)	Stack Moisture (%)
166-092992A	4D166	2	9.7 ODTH		166	Y	OUT	31175		
166-092992A	4D166	3	9.7 ODTH		166	Y	OUT	31208		
166-100192A	1D166	1	16.1 ODTH		166	Y	OUT	35500		
166-100192A	1D166	2	13.9 ODTH		166	Y	OUT	35500		
166-100192A	1D166	3	13.8 ODTH		166	Y	OUT	35500		
166-100192B	1D166	1	10.6 ODTH		166	Y	OUT	38929		
166-100192B	1D166	2	10.1 ODTH		166	Y	OUT	37242		
166-100192B	1D166	3	8.3 ODTH		166	Y	OUT	38586		
166-100292A	5D166	1	7.7 ODTH		166	Y	OUT	15801		
166-100292A	5D166	2	11.1 ODTH		166	Y	OUT	16321		
166-100292A	5D166	3	10.1 ODTH		166	Y	OUT	16638		
166-100692A	2D166	1	8.5 ODTH		166	N	OUT	15092		
166-100692A	2D166	2	8.9 ODTH		166	N	OUT	15702		
166-100692B	2D166	1	8.9 ODTH		166	N	OUT	15142		
166-100692B	2D166	2	10.6 ODTH		166	N	OUT	14654		
166-100892A	1P166	1	7.68 MSF 3/4/hr		166	N	OUT	120430		
166-100892A	1P166	2	7.68 MSF 3/4/hr		166	N	OUT	120430		
166-100892A	1P166	3	6.83 MSF 3/4/hr		166	N	OUT	120430		
166-100892B	2P166	1	16.8 MSF 3/4/hr		166	N	OUT	122660		
166-100892B	2P166	2	21.5 MSF 3/4/hr		166	N	OUT	122660		
166-100892C	1C166	1	20.16 MSF 3/4/hr		166	N	OUT	20171		
166-100892C	1C166	2	20.16 MSF 3/4/hr		166	N	OUT	20171		
167-021892A	4D167	1	9.26 ODTH		167	Y	OUT	30038	184	19.5
167-021892A	4D167	2	9.22 ODTH		167	Y	OUT	30038	184	19.5
167-021892A	4D167	3	8.04 ODTH		167	Y	OUT	30758	179	16.8
167-021892A	4D167	4	7.78 ODTH		167	Y	OUT	30758	179	16.8

PARTICLEBOARD - REPORTS TABLE, page 5b

Pollutant 1	Pollutant 2	Pollutant 3	Pollutant 4	Pollutant 5	Pollutant 6	Pollutant 7	Pollutant 8	Pollutant 9
PM	CPM	PM&CPM	VOC	NOX	CO	SO2	FOR	
PM	CPM	PM&CPM	VOC	NOX	CO	SO2	FOR	
PM	CPM	PM&CPM	VOC	NOX	CO	SO2	VOC	
PM	CPM	PM&CPM	VOC	NOX	CO	SO2	VOC	
PM	CPM	PM&CPM	VOC	NOX	CO	VOC		
PM	CPM	PM&CPM	VOC	NOX	CO	VOC		
PM	CPM	PM&CPM	VOC	NOX	CO	VOC		
PM	CPM	PM&CPM	VOC	NOX	CO	VOC		
PM	CPM	PM&CPM	VOC	NOX	CO	SO2		
PM	CPM	PM&CPM	VOC	NOX	CO	SO2		
PM	CPM	PM&CPM	VOC	NOX	CO	SO2		
PM	CPM	PM&CPM	VOC	NOX	CO	SO2		
PM	CPM	PM&CPM	VOC	NOX	CO	SO2		
PM	CPM	PM&CPM	VOC	NOX	CO	SO2		
PM&CPM	CO	FOR	VOC					
FOR								
FOR								
PM&CPM	CO	FOR	VOC					
FOR								
FOR	VOC							
FOR	VOC							
FOR								
FOR								
FOR								
FOR								

PARTICLEBOARD - REPORTS TABLE, page 5c

Test Code	Run	Comments
166-092992A	2	Comparison of finished moisture available, dryers 3D166 and 4D166 are identical, both are pre-dryers that dry from green to 20-30% moisture (wet basis).
166-092992A	3	Comparison of finished moisture available, dryers 3D166 and 4D166 are identical, both are pre-dryers that dry from green to 20-30% moisture (wet basis).
166-100192A	1	Comparison of reclaim; test code 166-100192A with reclaim and 166-100192B without reclaim; two VOC test methods.
166-100192A	2	Comparison of reclaim; test code 166-100192A with reclaim and 166-100192B without reclaim; two VOC test methods.
166-100192A	3	Comparison of reclaim; test code 166-100192A with reclaim and 166-100192B without reclaim; two VOC test methods.
166-100192B	1	Comparison of reclaim; test code 166-100192A with reclaim and 166-100192B without reclaim; two VOC test methods.
166-100192B	2	Comparison of reclaim; test code 166-100192A with reclaim and 166-100192B without reclaim; two VOC test methods.
166-100192B	3	Comparison of reclaim; test code 166-100192A with reclaim and 166-100192B without reclaim; two VOC test methods.
166-100292A	1	Unusual dryer of relatively low capacity.
166-100292A	2	Unusual dryer of relatively low capacity.
166-100292A	3	Unusual dryer of relatively low capacity.
166-100692A	1	2 cyclones on dryer not tested simultaneously, but production rate steady and considered as simultaneous test.
166-100692A	2	2 cyclones on dryer not tested simultaneously, but production rate steady and considered as simultaneous test.
166-100692B	1	2 cyclones on dryer not tested simultaneously, but production rate steady and considered as simultaneous test.
166-100692B	2	2 cyclones on dryer not tested simultaneously, but production rate steady and considered as simultaneous test.
166-100892A	1	4 Vents tested simultaneously for PM+CPM and Formaldehyde, not tested simultaneously for VOC and CO, however for these 2 pollutants, calculated as if tested simultaneously.
166-100892A	2	4 Vents tested simultaneously for PM+CPM and Formaldehyde, not tested simultaneously for VOC and CO, however for these 2 pollutants, calculated as if tested simultaneously.
166-100892A	3	4 Vents tested simultaneously for PM+CPM and Formaldehyde, not tested simultaneously for VOC and CO, however for these 2 pollutants, calculated as if tested simultaneously.
166-100892B	1	4 Vents tested simultaneously only for Formaldehyde, not simultaneously for CO, VOC, PM+CPM, but considered simultaneous for those pollutants.
166-100892B	2	4 Vents tested simultaneously only for Formaldehyde, not simultaneously for CO, VOC, PM+CPM, but considered simultaneous for those pollutants.
166-100892C	1	2 Vents tested simultaneously for Formaldehyde, not for VOC.
166-100892C	2	2 Vents tested simultaneously for Formaldehyde, not for VOC.
167-021892A	1	
167-021892A	2	
167-021892A	3	
167-021892A	4	

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PARTICLEBOARD - REPORTS TABLE, page 6a

Test Code	Unit Code	Run	Production Rate (Units)	Production Rate (Units)	Fac Code	One to one?	Sam. Loc.	Stack Flow (dscfm)	Stack Temperature (F)	Stack Moisture (%)
167-021892A	4D167	5	9.47 ODTH		167	Y	OUT	29670	185	21
167-021892A	4D167	6	9.53 ODTH		167	Y	OUT	29670	185	21
167-021892A	4D167	7	8.12 ODTH		167	Y	OUT	32092	177	16.2
167-021892A	4D167	8	7.75 ODTH		167	Y	OUT	32092	177	16.2
167-061988A	3D167	1	10.17 ODTH		167	Y	OUT	35300	203	
167-061988B	3D167	1	10.14 ODTH		167	Y	OUT	35000	210	
167-062288A	1D167	1	10.78 ODTH		167	Y	OUT	26300	137	14.3
167-062288A	1D167	2	10.61 ODTH		167	Y	OUT	27000	137	13.6
167-062288A	1D167	3	10.63 ODTH		167	Y	OUT	27400	134	13.1
167-062288B	2D167	1	9.42 ODTH		167	Y	OUT	25000	115	2.3
167-062288B	2D167	2	9.36 ODTH		167	Y	OUT	24700	115	2.4
167-062288B	2D167	3	9.31 ODTH		167	Y	OUT	24700	117	2
167-082189A	3D167	1	9.0 ODTH	25,000 WET Lb/hr	167	Y	OUT	31300	194	12.1
167-082189A	3D167	2	9.0 ODTH	25,000 WET Lb/hr	167	Y	OUT	32800	197	13
167-082189A	3D167	3	9.2 ODTH	25,000 WET Lb/hr	167	Y	OUT	32700	197	13.2
167-082389A	1D167	1	8.79 ODTH		167	Y	OUT	26600	132	16.5
167-082389A	1D167	2	8.95 ODTH		167	Y	OUT	26400	129	15.4
167-082389A	1D167	3	8.97 ODTH		167	Y	OUT	26400	129	15.6
167-082589A	2D167	1	6.36 ODTH		167	Y	OUT	24000	183	12.7
167-082589A	2D167	2	6.39 ODTH		167	Y	OUT	23800	185	12.9
167-091890A	4D167	1	11.3 ODTH	31,000 WET Lb/hr	167	Y	OUT	33900	167	13.2
167-091890A	4D167	2	11.4 ODTH	31,000 WET Lb/hr	167	Y	OUT	33600	174	13.4
167-091890A	4D167	3	11.4 ODTH	31,000 WET Lb/hr	167	Y	OUT	35000	168	12.4
167-091890A	4D167	4	11.0 ODTH	30,000 WET Lb/hr	167	Y	OUT	34800	171	12.2
167-091990A	4D167	1	10.3 ODTH	28,000 WET Lb/hr	167	Y	OUT	35300	169	11.4
167-091990A	4D167	2	8.1 ODTH	22,000 WET Lb/hr	167	Y	OUT	36800	168	9.3
167-100490A	5D167	1	14.1 ODTH	38,000 WET Lb/hr	167	Y	OUT	29800	183	18.2
167-100490A	5D167	2	14.1 ODTH	37,000 WET Lb/hr	167	Y	OUT	29000	197	18.3
167-100490A	5D167	3	12.2 ODTH	32,200 WET Lb/hr	167	Y	OUT	30500	195	15.6
167-100490A	5D167	4	15.2 ODTH	40,000 WET Lb/hr	167	Y	OUT	25400	185	20.4
167-100588A	3D167	1	10.65 ODTH		167	Y	OUT	29300	187	
167-100588A	3D167	2	9.20 ODTH		167	Y	OUT	29900	188	
167-100588A	3D167	3	9.41 ODTH		167	Y	OUT	33300	182	
167-102090A	4D167	1	11.77 ODTH		167	Y	OUT	31900	177	15.4
167-102090A	4D167	2	12.13 ODTH		167	Y	OUT	32900	173	14.2
167-102090A	4D167	3	11.68 ODTH		167	Y	OUT	35000	178	13.5
167-102090B	4D167	1	11.43 ODTH		167	Y	OUT	33200	157	14.6
167-102090B	4D167	2	11.07 ODTH		167	Y	OUT	33500	154	13.7
167-102090B	4D167	3	10.64 ODTH		167	Y	OUT	33500	159	14
167-102090D	1C167	1	9.986 MSF 3/4/hr		167	Y	OUT	3540	102	2.3
167-102190A	1Z167	1	9.986 MSF 3/4/hr		167	Y	OUT	441	191	82.3
167-102190B	1P167	1	9.986 MSF 3/4/hr		167	Y	OUT	27441	92	3.5
167-102288A	3D167	1	10.58 ODTH		167	Y	IN	34600	192	

PARTICLEBOARD - REPORTS TABLE, page 6b

Pollutant 1	Pollutant 2	Pollutant 3	Pollutant 4	Pollutant 5	Pollutant 6	Pollutant 7	Pollutant 8	Pollutant 9
FOR								
FOR								
FOR								
FOR								
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM	CPM	PM&CPM	VOC	NOX	FOR			
PM	CPM	PM&CPM	VOC	NOX	FOR			
PM	CPM	PM&CPM	VOC	NOX	FOR			
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM	CPM	PM&CPM	VOC	NOX	CO			
PM	CPM	PM&CPM	VOC	NOX	CO			
PM	CPM	PM&CPM	VOC	NOX	CO			
PM	CPM	PM&CPM	VOC	NOX	CO			
PM	CPM	PM&CPM	VOC	NOX	CO			
PM	CPM	PM&CPM	VOC	NOX	CO			
PM	CPM	PM&CPM	VOC	NOX	CO			
PM	CPM	PM&CPM	VOC	NOX	CO			
PM	CPM	PM&CPM	VOC	NOX	CO			
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM	CPM	PM&CPM	NOX	VOC	FOR	CO		
PM	CPM	PM&CPM	NOX	VOC	FOR	CO		
PM	CPM	PM&CPM	NOX	VOC	FOR	CO		
PM	CPM	PM&CPM	NOX	VOC	FOR	CO		
PM	CPM	PM&CPM	NOX	VOC	FOR	CO		
PM	CPM	PM&CPM	NOX	VOC	FOR	CO		
VOC	FOR							
VOC	FOR							
VOC	FOR							
PM								

PARTICLEBOARD - REPORTS TABLE, page 6c

Test Code	Run	Comments
167-021892A	5	
167-021892A	6	
167-021892A	7	
167-021892A	8	
167-061988A	1	Comparison of sanderdust & natural gas available.
167-061988B	1	Comparison of sanderdust & natural gas available.
167-062288A	1	
167-062288A	2	
167-062288A	3	
167-062288B	1	
167-062288B	2	
167-062288B	3	
167-082189A	1	
167-082189A	2	
167-082189A	3	
167-082389A	1	
167-082389A	2	
167-082389A	3	
167-082589A	1	
167-082589A	2	
167-091890A	1	
167-091890A	2	
167-091890A	3	
167-091890A	4	
167-091990A	1	Comparison of sanderdust and natural gas available.
167-091990A	2	Comparison of sanderdust and natural gas available.
167-100490A	1	Comparison of inlet temperature available.
167-100490A	2	Comparison of inlet temperature available.
167-100490A	3	Comparison of inlet temperature available.
167-100490A	4	Comparison of inlet temperature available.
167-100588A	1	
167-100588A	2	
167-100588A	3	
167-102090A	1	Comparison of sanderdust and natural gas available.
167-102090A	2	Comparison of sanderdust and natural gas available.
167-102090A	3	Comparison of sanderdust and natural gas available.
167-102090B	1	Comparison of sanderdust and natural gas available.
167-102090B	2	Comparison of sanderdust and natural gas available.
167-102090B	3	Comparison of sanderdust and natural gas available.
167-102090D	1	Average production rate for 3 runs.
167-102190A	1	Average production rate for 3 runs.
167-102190B	1	Average production rate for 3 runs.
167-102288A	1	Comparison of sanderdust and natural gas fuels available.

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PARTICLEBOARD - REPORTS TABLE, page 7a

Test Code	Unit Code	Run	Production Rate (Units)	Production Rate (Units)	Fac Code	One to one?	Sam. Loc.	Stack Flow (dscfm)	Stack Temperature (F)	Stack Moisture (%)
167-102288A	3D167	2	10.89 ODTH		167	Y	IN	32900	185	
167-102288B	3D167	1	10.50 ODTH		167	Y	IN	33900	191	
167-102390A	5D167	1	11.25 ODTH	30,000 WET Lb/hr	167	Y	OUT	31200	205	14.4
167-102390A	5D167	2	11.6 ODTH	31,000 WET Lb/hr	167	Y	OUT	31100	202	15.5
167-102390A	5D167	3	11.1 ODTH	30,000 WET Lb/hr	167	Y	OUT	31900	202	15.5
167-102588A	3D167	1	10.43 ODTH		167	Y	OUT	33000	173	14.3
167-102588A	3D167	2	10.21 ODTH		167	Y	OUT	32600	182	15
167-102588B	1P167	1	8.30 MSF 3/4/hr		167	Y	OUT	29503	86	1.4
167-102588B	1P167	2	8.30 MSF 3/4/hr		167	Y	OUT	29503	86	1.4
167-102588B	1P167	3	8.30 MSF 3/4/hr		167	Y	OUT	29503	86	1.4
167-102588C	1C167	1	8.29 MSF 3/4/hr		167	Y	OUT	20551	89	0.9
167-102588C	1C167	2	8.29 MSF 3/4/hr		167	Y	OUT	20551	89	0.9
167-102588C	1C167	3	8.29 MSF 3/4/hr		167	Y	OUT	20551	89	0.9
182-090689A	1D182	1	19.5 ODTH		182	Y	OUT	27223	131.4	15.65
182-090689A	1D182	2	19.5 ODTH		182	Y	OUT	26345	131.3	15.9
182-090689A	1D182	3	19.5 ODTH		182	Y	OUT	21293	131.9	16.37
182-090689B	1D182	1	19.5 ODTH		182	Y	IN	26919	568.7	10.18
182-090689B	1D182	2	19.5 ODTH		182	Y	IN	25914	599.8	10.75
182-090689B	1D182	3	19.5 ODTH		182	Y	IN	25443	588.2	10.38
182-090689C	1D182	1	19.5 ODTH		182	Y	IN	21176	135	16.64
182-090689C	1D182	2	19.5 ODTH		182	Y	IN	21054	136.6	17.52
182-090689C	1D182	3	19.5 ODTH		182	Y	IN	22231	141.7	10.71
182-090889A	2D182	1	19.5 ODTH		182	Y	OUT	3294	165	52.23
182-090889A	2D182	2	19.5 ODTH		182	Y	OUT	3270	171.8	56.13
182-090889A	2D182	3	19.5 ODTH		182	Y	OUT	3275	173.1	51.69
182-100589A	1D182	1	19.5 ODTH		182	Y	OUT	26258	134.5	16.78
182-100589A	1D182	2	19.5 ODTH		182	Y	OUT	27278	129	14.46
182-100589A	1D182	3	19.5 ODTH		182	Y	OUT	26895	134.7	16.11
182-100589B	1D182	1	19.5 ODTH		182	Y	IN	21341	155.8	18.1
182-100589B	1D182	2	19.5 ODTH		182	Y	IN	21108	141.3	15.97
182-100589B	1D182	3	19.5 ODTH		182	Y	IN	21916	152.8	15.39
202-030194A	1P202	1	12.16 MSF 3/4/hr		202	N	OUT	77300		
202-030194B	2P202	1	14.22 MSF 3/4/hr		202	N	OUT	48100		
202-030194C	1C202	1	12.16 MSF 3/4/hr		202	N	OUT	41200		
202-030194D	2C202	1	14.22 MSF 3/4/hr		202	N	OUT	48200		
202-071393A	1D202	1	12.1 ODTH		202	Y	OUT	30000	157	3
202-071393A	1D202	2	12.1 ODTH		202	Y	OUT	32000	157	3
202-071393B	2D202	1	10.2 ODTH		202	Y	OUT	28000	151	3
202-071393B	2D202	2	10.2 ODTH		202	Y	OUT	28700	151	3
202-071393C	1M202	1	13.1 ODTH		202	Y	OUT	5700	83	2
202-071393C	1M202	2	13.1 ODTH		202	Y	OUT	5700	83	2
202-071393D	2M202	1	11.0 ODTH		202	Y	OUT	40400	75	2
202-071393D	2M202	2	11.0 ODTH		202	Y	OUT	41600	75	2

PARTICLEBOARD - REPORTS TABLE, page 7b

Pollutant 1	Pollutant 2	Pollutant 3	Pollutant 4	Pollutant 5	Pollutant 6	Pollutant 7	Pollutant 8	Pollutant 9
PM								
PM	CPM	PM&CPM						
PM	CPM	PM&CPM	VOC	NOX	CO			
PM	CPM	PM&CPM	VOC	NOX	CO			
PM	CPM	PM&CPM	VOC	NOX	CO			
PM	CPM	PM&CPM	NOX	CO				
PM	CPM	PM&CPM	NOX	CO				
FOR	VOC							
FOR	VOC							
FOR	VOC							
FOR	VOC							
FOR	VOC							
FOR	VOC							
PM	PM&CPM	CPM	CO					
PM	PM&CPM	CPM	CO					
PM	PM&CPM	CPM	CO					
PM	PM&CPM	CPM	CO					
PM	PM&CPM	CPM	CO					
PM	PM&CPM	CPM	CO					
PM	PM&CPM	CPM	CO					
PM	PM&CPM	CPM	CO					
PM	PM&CPM	CPM	CO					
PM	PM&CPM	CPM	CO					
PM	PM&CPM	CPM	CO					
PM	PM&CPM	CPM						
PM	PM&CPM	CPM						
PM	PM&CPM	CPM						
PM	PM&CPM	CPM						
PM	PM&CPM	CPM						
PM	PM&CPM	CPM						
FOR								
FOR								
FOR								
FOR								
CO	NOX	PM						
CO	NOX	PM						
CO	NOX	PM						
CO	NOX	PM						
PM								
PM								
PM								
PM								

PARTICLEBOARD - REPORTS TABLE, page 7c

Test Code	Run	Comments
167-102288A	2	Comparison of sanderdust and natural gas fuels available.
167-102288B	1	
167-102390A	1	Comparison of inlet temperature available.
167-102390A	2	Comparison of inlet temperature available.
167-102390A	3	Comparison of inlet temperature available.
167-102588A	1	
167-102588A	2	
167-102588B	1	
167-102588B	2	
167-102588B	3	
167-102588C	1	
167-102588C	2	
167-102588C	3	
182-090689A	1	E-tube outlet; system sampled three places simultaneously; comparison of PM and CO.
182-090689A	2	E-tube outlet; system sampled three places simultaneously; comparison of PM and CO.
182-090689A	3	E-tube outlet; system sampled three places simultaneously; comparison of PM and CO.
182-090689B	1	Pre-Dryer Inlet; system sampled three places simultaneously; comparison of PM and CO.
182-090689B	2	Pre-Dryer Inlet; system sampled three places simultaneously; comparison of PM and CO.
182-090689B	3	Pre-Dryer Inlet; system sampled three places simultaneously; comparison of PM and CO.
182-090689C	1	Quench Chamber Inlet; system sampled three places simultaneously; comparison of PM and CO.
182-090689C	2	Quench Chamber Inlet; system sampled three places simultaneously; comparison of PM and CO.
182-090689C	3	Quench Chamber Inlet; system sampled three places simultaneously; comparison of PM and CO.
182-090889A	1	Coen #2 Stack outlet
182-090889A	2	Coen #2 Stack outlet
182-090889A	3	Coen #2 Stack outlet
182-100589A	1	E-tube outlet
182-100589A	2	E-tube outlet
182-100589A	3	E-tube outlet
182-100589B	1	Quench Chamber Inlet
182-100589B	2	Quench Chamber Inlet
182-100589B	3	Quench Chamber Inlet
202-030194A	1	4 Press Vents not tested simultaneously; one run test; individual vent data in report .
202-030194B	1	4 Press Vents not tested simultaneously; one run test; individual vent data in report .
202-030194C	1	1 of six vents tested for concentration; 6 vents tested for flow; assumed concentration same in all 6 vents.
202-030194D	1	1 of six vents tested for concentration; 6 vents tested for flow; assumed concentration same in all 6 vents.
202-071393A	1	VOC data in report, not in database, appeared faulty.
202-071393A	2	VOC data in report, not in database, appeared faulty.
202-071393B	1	
202-071393B	2	
202-071393C	1	
202-071393C	2	
202-071393D	1	
202-071393D	2	

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PARTICLEBOARD - REPORTS TABLE, page 8a

Test Code	Unit Code	Run	Production Rate (Units)	Production Rate (Units)	Fac Code	One to one?	Sam. Loc.	Stack Flow (dscfm)	Stack Temperature (F)	Stack Moisture (%)
202-071592C	XD202	1	19.11 ODTH		202	N	OUT	41100	150	4
202-071592C	XD202	2	19.11 ODTH		202	N	OUT	41100	148	3
202-071592C	XD202	3	19.11 ODTH		202	N	OUT	43400	153	2
202-071592D	1D202	1	12.81 ODTH		202	Y	OUT	27500	167	3
202-071592D	1D202	2	12.81 ODTH		202	Y	OUT	28100	168	3
202-071592D	1D202	3	12.81 ODTH		202	Y	OUT	29600	148	2
202-071592E	2D202	1	11.38 ODTH		202	Y	OUT	28900	181	3.4
202-071592E	2D202	2	11.38 ODTH		202	Y	OUT	29200	174	3
202-071592E	2D202	3	11.38 ODTH		202	Y	OUT	29000	172	3.1
202-081788A	XD202	1	22.67 ODTH		202	N	OUT	45869	154	2.62
202-081788A	XD202	2	22.67 ODTH		202	N	OUT	46030	160	2.57
202-081788A	XD202	3	22.67 ODTH		202	N	OUT	47760	153	1.87
228-091492A	3D228	1	11.12 ODTH		228	Y	IN	33200		
228-091492A	3D228	2	12.9 ODTH		228	Y	IN	31900		
228-091492A	3D228	3	12.9 ODTH		228	Y	IN	31400		
228-091492B	3D228	1	12.9 ODTH		228	Y	OUT	37400		
228-091492B	3D228	2	12.9 ODTH		228	Y	OUT	39500		
228-091492B	3D228	3	12.9 ODTH		228	Y	OUT	38700		
228-091592A	3D228	1	13.13 ODTH		228	Y	IN	32142	261	24.4
228-091592A	3D228	2	12.47ODTH		228	Y	IN	31891	262	23.3
228-091592A	3D228	3	11.86 ODTH		228	Y	IN	31401	262	25.1
228-091592B	3D228	1	12.31 ODTH		228	Y	OUT	39000		
228-091592B	3D228	2	12.31 ODTH		228	Y	OUT	39500		
228-091592B	3D228	3	12.31 ODTH		228	Y	OUT	38700		
228-091692A	1D228	1	9.64 ODTH		228	Y	IN	47717	224	14.5
228-091692A	1D228	2	9.64 ODTH		228	Y	IN	46349	218	13.7
228-091692A	1D228	3	8.71 ODTH		228	Y	IN	46648	223	15.2
228-091692B	1D228	1	9.64 ODTH		228	Y	IN	41000		
228-091692B	1D228	2	9.64 ODTH		228	Y	IN	47700		
228-091692B	1D228	3	8.71 ODTH		228	Y	IN	46300		
228-091692C	1D228	1	9.64 ODTH		228	Y	OUT	49858	226	13.1
228-091692C	1D228	2	9.64 ODTH		228	Y	OUT	48543	221	14.3
228-091692C	1D228	3	8.71 ODTH		228	Y	OUT	49389	215	12.4
228-091692D	1D228	1	9.64 ODTH		228	Y	OUT	47683	219	13.8
228-091692D	1D228	2	9.64 ODTH		228	Y	OUT	49903	217	11.8
228-091692D	1D228	3	8.22 ODTH		228	Y	OUT	46585	221	14.6
228-091692E	3D228	1	11.12 ODTH		228	Y	OUT	37421	248	21.4
228-091692E	3D228	2	12.31 ODTH		228	Y	OUT	38439	250	21.3
228-091692E	3D228	3	12.22 ODTH		228	Y	OUT	39491	252	21
228-091692F	3D228	1	13.13 ODTH		228	Y	OUT	38063	251	24.2
228-091692F	3D228	2	12.47 ODTH		228	Y	OUT	40223	252	21
228-091692F	3D228	3	11.86 ODTH		228	Y	OUT	38705	252	23.3
228-091792A	1D228	1	9.64 ODTH		228	Y	OUT	48273	219	14.9

PARTICLEBOARD - REPORTS TABLE, page 8b

Pollutant 1	Pollutant 2	Pollutant 3	Pollutant 4	Pollutant 5	Pollutant 6	Pollutant 7	Pollutant 8	Pollutant 9
VOC	METH	NOX	CO					
VOC	METH	NOX	CO					
VOC	METH	NOX	CO					
VOC	METH							
VOC	METH							
VOC	METH							
VOC	METH							
VOC	METH							
VOC	METH							
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
VOC								
VOC								
VOC								
VOC	NOX							
VOC	NOX							
VOC	NOX							
PM	PM&CPM	CPM						
PM	PM&CPM	CPM						
PM	PM&CPM	CPM						
CO								
CO								
CO								
PM	PM&CPM	CPM						
PM	PM&CPM	CPM						
PM	PM&CPM	CPM						
VOC								
VOC								
VOC								
ALD/KET	CO	NOX	VOC	FOR				
ALD/KET	CO	NOX	VOC	FOR				
ALD/KET	CO	NOX	VOC	FOR				
PM10								
PM10	PM10&CPM	PM						
PM10	PM10&CPM	PM						
ALD/KET	FOR							
ALD/KET	FOR							
ALD/KET	FOR							
PM10	PM10&CPM	PM						
PM10	PM10&CPM	PM						
PM10	PM10&CPM	PM						
HAPS								

PARTICLEBOARD - REPORTS TABLE, page 8c

Test Code	Run	Comments
202-071592C	1	2 Dryers to a common stack.
202-071592C	2	2 Dryers to a common stack.
202-071592C	3	2 Dryers to a common stack.
202-071592D	1	
202-071592D	2	
202-071592D	3	
202-071592E	1	
202-071592E	2	
202-071592E	3	
202-081788A	1	2 Dryers to a common stack.
202-081788A	2	2 Dryers to a common stack.
202-081788A	3	2 Dryers to a common stack.
228-091492A	1	Core Dryer
228-091492A	2	Core Dryer
228-091492A	3	Core Dryer
228-091492B	1	Core Dryer
228-091492B	2	Core Dryer
228-091492B	3	Core Dryer
228-091592A	1	Core Dryer
228-091592A	2	Core Dryer
228-091592A	3	Core Dryer
228-091592B	1	
228-091592B	2	
228-091592B	3	
228-091692A	1	Surface Dryer
228-091692A	2	Surface Dryer
228-091692A	3	Surface Dryer
228-091692B	1	Surface Dryer
228-091692B	2	Surface Dryer
228-091692B	3	Surface Dryer
228-091692C	1	Surface Dryer
228-091692C	2	Surface Dryer
228-091692C	3	Surface Dryer
228-091692D	1	Surface Dryer
228-091692D	2	Surface Dryer
228-091692D	3	Surface Dryer
228-091692E	1	Core Dryer
228-091692E	2	Core Dryer
228-091692E	3	Core Dryer
228-091692F	1	Core Dryer
228-091692F	2	Core Dryer
228-091692F	3	Core Dryer
228-091792A	1	Surface Dryer

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PARTICLEBOARD - REPORTS TABLE, page 9a

Test Code	Unit Code	Run	Production Rate (Units)	Production Rate (Units)	Fac Code	One to one?	Sam. Loc.	Stack Flow (dscfm)	Stack Temperature (F)	Stack Moisture (%)
228-091792A	1D228	2	9.64 ODTH		228	Y	OUT	51850	221	12.7
228-091792A	1D228	3	8.66 ODTH		228	Y	OUT	52961	215	10.9
228-091792B	3D228	1	12.31 ODTH		228	Y	OUT	38306	254	23.3
228-091792B	3D228	2	12.31 ODTH		228	Y	OUT	40463	252	19.8
228-091792B	3D228	3	12.31 ODTH		228	Y	OUT	36500	253	24.4
228-091992H	1P228	1	15.5 MSF 3/4/hr		228	N	OUT	57544	111	3.6
228-091992H	1P228	2	19.2 MSF 3/4/hr		228	N	OUT	54906	111	3.5
228-091992H	1P228	3	13.7 MSF 3/4/hr		228	N	OUT	57188	116	2.5
228-091992J	1P228	1	14.4 MSF 3/4/hr		228	N	OUT	62922	113	3
228-091992J	1P228	2	19.2 MSF 3/4/hr		228	N	OUT	61578	109	2.6
228-091992J	1P228	3	13.7 MSF 3/4/hr		228	N	OUT	58214	111	3.1
228-091992K	1P228	1	15.5 MSF 3/4/hr		228	N	OUT	57460		
228-091992K	1P228	2	19.2 MSF 3/4/hr		228	N	OUT	54980		
228-091992K	1P228	3	13.7 MSF 3/4/hr		228	N	OUT	57160		
228-092292A	1C228	1	14.25 MSF 3/4/hr		228	N	OUT	29134	128	3.1
228-092292A	1C228	2	14.25 MSF 3/4/hr		228	N	OUT	31215	123	3.1
228-092292A	1C228	3	12.83 MSF 3/4/hr		228	N	OUT	33363	104	1.3
228-092392A	1C228	1	13.25 MSF 3/4/hr		228	N	OUT	32144	108	1.7

PARTICLEBOARD - REPORTS TABLE, page 9b

Pollutant 1	Pollutant 2	Pollutant 3	Pollutant 4	Pollutant 5	Pollutant 6	Pollutant 7	Pollutant 8	Pollutant 9
HAPS								
HAPS								
HAPS								
HAPS								
HAPS								
ALD/KET	FOR							
ALD/KET	FOR							
ALD/KET	FOR							
PM10	PM10&CPM	PM						
PM10	PM10&CPM	PM						
PM10	PM10&CPM	PM						
VOC								
VOC								
VOC								
ALD/KET	VOC	FOR						
ALD/KET	VOC	FOR						
ALD/KET	VOC	FOR						
PM10	PM10&CPM	PM						

PARTICLEBOARD - REPORTS TABLE, page 9c

Test Code	Run	Comments
228-091792A	2	Surface Dryer
228-091792A	3	Surface Dryer
228-091792B	1	Core Dryer
228-091792B	2	Core Dryer
228-091792B	3	Core Dryer
228-091992H	1	Only 3 stacks were tested out of 6; thus appropriate parameters were averaged or multiplied by 2.
228-091992H	2	Only 3 stacks were tested out of 6; thus appropriate parameters were averaged or multiplied by 2.
228-091992H	3	Only 3 stacks were tested out of 6; thus appropriate parameters were averaged or multiplied by 2.
228-091992J	1	Only 3 stacks were tested out of 6; thus appropriate parameters were averaged or multiplied by 2.
228-091992J	2	Only 3 stacks were tested out of 6; thus appropriate parameters were averaged or multiplied by 2.
228-091992J	3	Only 3 stacks were tested out of 6; thus appropriate parameters were averaged or multiplied by 2.
228-091992K	1	Only 3 stacks were tested out of 6; thus appropriate parameters were averaged or multiplied by 2.
228-091992K	2	Only 3 stacks were tested out of 6; thus appropriate parameters were averaged or multiplied by 2.
228-091992K	3	Only 3 stacks were tested out of 6; thus appropriate parameters were averaged or multiplied by 2.
228-092292A	1	
228-092292A	2	
228-092292A	3	
228-092392A	1	

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PARTICLEBOARD - DRYER A TABLE, page 1a of 1(a-b)

Unit Code	Equiptment Manufacturer	Dryer Type	Firing Type	Product	Dryer Capacity (Units)	Burner Manufacturer	Burner Capacity (MMBtu/hr)	Type Fuel 1	Type Fuel 2
1D022			DFIRE	PB					
1D030	McConnell	RTP	DFIRE	PB		McConnell		WREF	
1D039	MEC	RSP	DFIRE	PB	Pre-Dryer Use	McBurney	250	WREF	SDUST
1D043	Heil	RTP	DFIRE	PB	22,000 lb/hr (wet)	McConnell	30.3	WREF	
1D045	MEC	RTP	DFIRE	PB	12.5 T/hr	McConnell	19	SDUST	
1D166	MEC	RTP	DFIRE	PB		Energex	27	SDUST	NGAS
1D167	Heil	RTP	DFIRE	PB	30000 lb/hr			SDUST	NGAS
1D182	Westec Amer.Predryer	RTP	DFIRE	PB	48,000 lb/hr @27% MC	Coen	30	SDUST	
1D202	MEC	RTP	BOTH	PB	14 ODTH			NGAS	
1D228	Clark Sheet Metal	RSP	DFIRE	PB	21, 500 lb/hr	Wellons McConnel	40	SDUST	WREF
2D022			DFIRE	PB					
2D030	McConnell	RTP	DFIRE	PB		McConnell		WREF	
2D043	Heil	RTP	DFIRE	PB	22,000 lb/hr (wet)	McConnell	30.3	WREF	
2D045	MEC	RTP	DFIRE	PB	12.5 T/Hr	McConnell	19	SDUST	
2D166	MEC	RTP	DFIRE	PB		Energex	27	SDUST	NGAS
2D167	MEC	RU	DFIRE	PB	20,000 lb/hr	Energex		SDUST	NGAS
2D182	American	TUBE	DFIRE	PB	48,000 lb/hr @27% MC	Coen	15	SDUST	
2D202	MEC	RTP	BOTH	PB	12 ODTH			NGAS	
3D166	MEC	RSP	DFIRE	PB					
3D167	HEIL	RTP	DFIRE	PB	29,000 Lb/hr	Coen	25	SDUST	NGAS
3D228	Clark Sheet Metal	RSP	DFIRE	PB	25, 500 OD lbs/hr	Wellons McConnel	50	SDUST	WREF
4D166	MEC	RSP	DFIRE	PB					
4D167	MEC	RTP	DFIRE	PB	30,000 lb/hr	Coen	25	SDUST	NGAS
5D039	Roder	RSP	DFIRE	PB	36,400 lb/hr	McBurney	41.6	SDUST	WREF
5D166	Buttner		DFIRE	PB				NGAS	
5D167	Heil	RTP	DFIRE	PB	30000 lb/hr	Energex		SDUST	NGAS
XD039	Roder	RSP	DFIRE	PB		McBurney	83.2	WREF	SDUST
XD156	Rader-Thompson	RSP	DFIRE	PB		Coen	35	SDUST	NGAS
XD202	Heil	RTP	BOTH	PB	19 ODTH			NGAS	
YD039	Roder	RSP	DFIRE	PB		McBurney	83.2	WREF	SDUST

PARTICLEBOARD - DRYER A TABLE, page 1b

Unit Code	Recy-cled ?	Initial PCD	Interm. PCD	Final PCD	Q/C ?	Comments
1D022				CYC		Undescribed Core Dryer with cyclone.
1D030				CYC		
1D039	Y	CYC		EFB	N	This dryer is a pre-drying green furnish to ~ 65% MC(dry); 2 dryers; some dryer exhaust recycled to dryer inlet.
1D043	N			CYC	N	Face or Surface dryer handling pre-dried mateial.
1D045	N			CYC	N	No production/process data given; Face Dryer.
1D166	N			CYC	N	
1D167	N	CYC	VSC	PBA	Y	Capacity in green wood units.
1D182	Y	CYC	MCLO	WESP	Y	Dryer Exhausts partially recycled as cooling air to COEN burner; Prior to E-tube gasses pass through a quench chamber; pre-dryer for dryer 2D182.
1D202	N			CYC	N	Heated by both steam and natural gas burners.
1D228	N		MCLO	EFB	N	Compare to 3D228 for species, inlet moisture and inlet temperature.
2D022				CYC		Undescribed Face Dryer with cyclone.
2D030				CYC		
2D043	N			CYC	N	Core Dryer handling pre-dried material.
2D045	N			CYC	N	No production/process data given; Core Dryer.
2D166	N	CYC		CYC	N	
2D167	N			CYC	N	Capacity in green wood units
2D182	Y	CYC		INC	N	Vertical Flash Tube Dryer , dryer exhaust to COEN burner; Dryer exhaust used as cooling air and as inlet air for burner.
2D202	N			CYC	N	Heated by both steam and natural gas burners.
3D166	N	CYC	CYC	EFB	N	Pre-Dryer for green furnish to approximately 25% Moisture (OD).
3D167	N	CYC		MCLO	N	Capacity in green wood units.
3D228	N	MCLO		EFB	N	Compare to 1D228 for species, inlet moisture and inlet temperature.
4D166	N	CYC	CYC	EFB	N	Pre-Dryer for green furnish to approximately 25% Moisture (OD).
4D167	N	CYC	CYC	EFB	N	Formely Dryer 2D167; recoded because of new control equipment.
5D039	Y	CYC		MCLO	N	This is a final dryer, drying approximately 65% MC furnish from predryer; some dryer exhaust recycled to dryer inlet.
5D166	N	CYC		CYC	N	Unusual dryer.
5D167	N	CYC	CYC	EFB	N	Formerly dryer 3D167, recoded when EFB added; Capacity in green wood units.
XD039	Y	CYC		MCLO	N	This is a final dryer drying 65% MC furnish from pre-dryer, 2 dryers; some dryer exhaust recycled to dryer inlet.
XD156	Y	SCRB		SF	N	2 Dryers to common stack; dryers recycled 50% of gases to burner; unusual control equipment.
XD202	N			EFB	N	2 Dryers with a common stack; both dryers are partially heated with steam, one also is heated by natural gas, the other is also heated by a sanderdust burner.
YD039	Y	CYC		MCLO	N	This is a Final-dryer drying 65% MC furnish from pre-dryer, 2 dryers with common stack; some dryer exhaust recycled to dryer inlet.

PARTICLEBOARD - DRYER B TABLE, page 1a of 6(a-d)

Test Code	Unit Code	Run	Production Rate (ODTH)	Production Rate Other (Units)	Core, Surface, or Both	Wood Species 1	% Species 1	Wood Species 2	% Species 2	Wood Species 3
022-102689B	1D022	1			C	PINE SP	95	HWOOD	5	
022-102689B	1D022	2			C	PINE SP	95	HWOOD	5	
022-102689C	2D022	1			S	PINE SP	95	HWOOD	5	
022-102689C	2D022	2			S	PINE SP	95	HWOOD	5	
030-011993A	1D030	1	13.7		S	PINE SP	95	HWOOD	5	
030-011993A	1D030	2	15.3		S	PINE SP	95	HWOOD	5	
030-011993A	1D030	3	11.7		S	PINE SP	95	HWOOD	5	
030-011993B	1D030	1	15.1		S	PINE SP	95	HWOOD	5	
030-011993B	1D030	2	14.8		S	PINE SP	95	HWOOD	5	
030-011993B	1D030	3	15.8		S	PINE SP	95	HWOOD	5	
030-011993C	1D030	1	15.4		S	PINE SP	95	HWOOD	5	
030-011993C	1D030	2	17.4		S	PINE SP	95	HWOOD	5	
030-011993C	1D030	3	16.4		S	PINE SP	95	HWOOD	5	
030-011993D	1D030	1	15.2		S	PINE SP	95	HWOOD	5	
030-011993D	1D030	2	16.7		S	PINE SP	95	HWOOD	5	
030-011993D	1D030	3	16.2		S	PINE SP	95	HWOOD	5	
030-011993E	1D030	1	9.96		S	PINE SP	95	HWOOD	5	
030-011993E	1D030	2	15.5		S	PINE SP	95	HWOOD	5	
030-011993E	1D030	3	15.4		S	PINE SP	95	HWOOD	5	
030-011993F	1D030	1	15.3		S	PINE SP	95	HWOOD	5	
030-011993F	1D030	2	16.3		S	PINE SP	95	HWOOD	5	
030-011993F	1D030	3	15.4		S	PINE SP	95	HWOOD	5	
030-012093A	2D030	1	8.28		C	PINE SP	95	HWOOD	5	
030-012093A	2D030	2	8.07		C	PINE SP	95	HWOOD	5	
030-012093A	2D030	3	2.49		C	PINE SP	95	HWOOD	5	
030-012093B	2D030	1	9.02		C	PINE SP	95	HWOOD	5	
030-012093B	2D030	2	6.08		C	PINE SP	95	HWOOD	5	
030-012093B	2D030	3	7.44		C	PINE SP	95	HWOOD	5	
030-012093C	2D030	1	10.7		C	PINE SP	95	HWOOD	5	
030-012093C	2D030	2	10.8		C	PINE SP	95	HWOOD	5	
030-012093C	2D030	3	6.96		C	PINE SP	95	HWOOD	5	
030-012093D	2D030	1	14		C	PINE SP	95	HWOOD	5	
030-012093D	2D030	2	6.7		C	PINE SP	95	HWOOD	5	
030-012093D	2D030	3	8.04		C	PINE SP	95	HWOOD	5	
030-012093E	2D030	1	9.19		C	PINE SP	95	HWOOD	5	
030-012093E	2D030	2	9.25		C	PINE SP	95	HWOOD	5	
030-012093E	2D030	3	7.33		C	PINE SP	95	HWOOD	5	
030-012093F	2D030	1	8.67		C	PINE SP	95	HWOOD	5	
030-012093F	2D030	2	10		C	PINE SP	95	HWOOD	5	
030-012093F	2D030	3	8.22		C	PINE SP	95	SWOOD	5	
039-082791A	1D039	1	45.6			HWOOD	55	SWOOD	45	
039-082791A	1D039	2	45.6			HWOOD	55	SWOOD	45	
039-082791A	1D039	3	45.2			HWOOD	55	SWOOD	45	

PARTICLEBOARD - DRYER B TABLE, page 1b

% Species 3	Hot Air Source 1	% Source 1	Hot Air Source 2	% Source 2	Hot Air Source 3	% Source 3	Type Fuel 1	Amount Fuel 1
	DFIRE							
	DFIRE							
	DFIRE							
	DFIRE							
	SUSP BU						WREF	
	SUSP BU						WREF	
	SUSP BU						WREF	
	SUSP BU						WREF	
	SUSP BU						WREF	
	SUSP BU						WREF	
	SUSP BU						WREF	
	SUSP BU						WREF	
	SUSP BU						WREF	
	SUSP BU						WREF	
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	SUSP BU						WREF	
	SUSP BU						WREF	
	SUSP BU						WREF	
	SUSP BU						WREF	
	SUSP BU						WREF	
	SUSP BU						WREF	
	FLUE GAS	100					WREF	
	FLUE GAS	100					WREF	
	FLUE GAS	100					WREF	

PARTICLEBOARD - DRYER B TABLE, page 1c

Test Code	Run	% Fuel 1	Type Fuel 2	Amount Fuel 2	% Fuel 2	Inlet Moisture (%OD)	Outlet Moisture (%OD)	Inlet Temp (F)	Outlet Temp (F)
022-102689B	1								
022-102689B	2								
022-102689C	1								
022-102689C	2								
030-011993A	1	100				28.7	7.89	204	125
030-011993A	2	100				18.9	8.22	228	120
030-011993A	3	100				20.2	8.41	278	130
030-011993B	1	100				25.5	8.3	220	129
030-011993B	2	100				23.8	7.69	213	127
030-011993B	3	100				24.9	7.97	235	129
030-011993C	1	100				15.3	7.09	167	113
030-011993C	2	100				30.2	8.17	248	128
030-011993C	3	100				15.3	8.45	242	121
030-011993D	1	100				24.1	7.82	217	128
030-011993D	2	100				18.7	8.6	256	124
030-011993D	3	100				14.9	6.63	248	122
030-011993E	1	100				24.1	6.36	233	130
030-011993E	2	100				17.6	8.74	244	121
030-011993E	3	100				17.3	7.9	268	125
030-011993F	1	100				25.6	8.21	243	132
030-011993F	2	100				17.4	8.54	260	123
030-011993F	3	100				18.9	8.57	270	125
030-012093A	1	100				31.1	6.33	457	167
030-012093A	2	100				17.1	6.56	439	148
030-012093A	3	100				18.3	6.84	359	163
030-012093B	1	100				17.2	6.67	450	150
030-012093B	2	100				21.1	6.99	420	161
030-012093B	3	100				16.1	5.66	407	163
030-012093C	1	100				24.4	6.42	448	158
030-012093C	2	100				23.9	6.13	452	158
030-012093C	3	100				15.3	4.69	312	164
030-012093D	1	100				25.6	7.74	462	161
030-012093D	2	100				15.7	4.44	307	159
030-012093D	3	100				23.6	7.23	494	161
030-012093E	1	100				23.99	6.17	453	159
030-012093E	2	100				19.01	6.79	484	153
030-012093E	3	100				16.7	5.24	455	162
030-012093F	1	100				24.8	6.85	409	152
030-012093F	2	100				17.2	6.81	483	150
030-012093F	3	100				18.6	5.78	485	163
039-082791A	1		SDUST			95	65	690	179
039-082791A	2		SDUST			95	65	692	180
039-082791A	3		SDUST			95	65	691	180

PARTICLEBOARD - DRYER B TABLE, page 1d

Comments
Undescribed core dryer with cyclone.
Undescribed core dryer with cyclone.
Undescribed face dryer with cyclone.
Undescribed face dryer with cyclone.
Sawdust and whole tree chips are also forms used.
Sawdust and whole tree chips are also forms used.
Sawdust and whole tree chips are also forms used.
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Sawdust and whole tree chips are also forms used.
Sawdust and whole tree chips are also forms used.
Sawdust and whole tree chips are also forms used.
Pre-Dryer, dries green wood to approximately 65% MC (OD) for final dryers.
Pre-Dryer, dries green wood to approximately 65% MC (OD) for final dryers.
Pre-Dryer, dries green wood to approximately 65% MC (OD) for final dryers.

PARTICLEBOARD - DRYER B TABLE, page 2a

Test Code	Unit Code	Run	Production Rate (ODTH)	Production Rate Other (Units)	Core, Surface, or Both	Wood Species 1	% Species 1	Wood Species 2	% Species 2	Wood Species 3
039-102692A	1D039	1	50.15			HWOOD	55	SWOOD	45	
039-102692A	1D039	2	48.88			HWOOD	55	SWOOD	45	
039-102692A	1D039	3	50.56			HWOOD	55	SWOOD	45	
039-102692B	XD039	1	20.54			HWOOD	55	SWOOD	45	
039-102692B	XD039	2	19.97			HWOOD	55	SWOOD	45	
039-102692B	XD039	3	20.95			HWOOD	55	SWOOD	45	
039-102692C	YD039	1	19.27			HWOOD	55	SWOOD	45	
039-102692C	YD039	2	19.27			HWOOD	55	SWOOD	45	
039-102692C	YD039	3	19.27			HWOOD	55	SWOOD	45	
039-102692D	5D039	1	10.34			HWOOD	55	SWOOD	45	
039-102692D	5D039	2	10.34			HWOOD	55	SWOOD	45	
039-102692D	5D039	3	10.34			HWOOD	55	SWOOD	45	
043-042192A	1D043	1	10.4		S	SY PINE	100			
043-042192A	1D043	2	10.3		S	SY PINE	100			
043-042192A	1D043	3	10.4		S	SY PINE	100			
043-042192B	2D043	1	16.92		C	SY PINE	100			
043-042192B	2D043	2	18.34		C	SY PINE	100			
043-042192B	2D043	3	18.2		C	SY PINE	100			
045-041593A	1D045	1	14.8			SY PINE	98	HWOOD	2	
045-041593A	1D045	2	17.5			SY PINE	98	HWOOD	2	
045-041593B	2D045	1	20.84			SY PINE	98	HWOOD	2	
045-041593B	2D045	2	25.5			SY PINE	98	HWOOD	2	
156-022087A	XD156	1	23.6	16.103 MSF 3/4/hr	B	PINE SP	15	UFIR	85	
156-022087A	XD156	2	23.6	16.103 MSF 3/4/hr	B	PINE SP	15	UFIR	85	
156-032191A	XD156	1	28	19.095 MSF 3/4/hr	B	PINE SP	15	UFIR	85	
156-032191A	XD156	2	29.1	19.833 MSF 3/4/hr	B	PINE SP	15	UFIR	85	
156-032191A	XD156	3	28	19.095 MSF 3/4/hr	B	PINE SP	15	UFIR	85	
156-051090A	XD156	1	29.9	20.370 MSF 3/4/hr	B	PINE SP	15	UFIR	85	
156-051090A	XD156	2	29.3	20.0 MSF 3/4/hr	B	PINE SP	15	UFIR	85	
156-051090A	XD156	3	30.1	20.556 MSF 3/4/hr	B	PINE SP	15	UFIR	85	
156-061688A	XD156	1	25.2	17.181 MSF 3/4/hr	B	PINE SP	15	UFIR	85	
156-061688A	XD156	2	25.2	17.183 MSF 3/4/hr	B	PINE SP	15	UFIR	85	

PARTICLEBOARD - DRYER B TABLE, page 2b

% Species 3	Hot Air Source 1	% Source 1	Hot Air Source 2	% Source 2	Hot Air Source 3	% Source 3	Type Fuel 1	Amount Fuel 1
	FLUE GAS	100					WREF	
	FLUE GAS	100					WREF	
	FLUE GAS	100					WREF	
	FLUE GAS	100					WREF	
	FLUE GAS	100					WREF	
	FLUE GAS	100					WREF	
	FLUE GAS	100					WREF	
	FLUE GAS	100					WREF	
	FLUE GAS	100					WREF	
	FLUE GAS	100					WREF	
	SUSP BU	100					WREF	1,782 lb/hr
	SUSP BU	100					WREF	1,782 lb/hr
	SUSP BU	100					WREF	1,782 lb/hr
	SUSP BU	100					WREF	1,782 lb/hr
	SUSP BU	100					WREF	1,782 lb/hr
	SUSP BU	100					WREF	1,782 lb/hr
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	

PARTICLEBOARD - DRYER B TABLE, page 2c

Test Code	Run	% Fuel 1	Type Fuel 2	Amount Fuel 2	% Fuel 2	Inlet Moisture (%OD)	Outlet Moisture (%OD)	Inlet Temp (F)	Outlet Temp (F)
039-102692A	1		SDUST			95	65	650	175
039-102692A	2		SDUST			95	65	650	160
039-102692A	3		SDUST			95	65	650	160
039-102692B	1		SDUST			65	5	560	290
039-102692B	2		SDUST			65	5	600	287
039-102692B	3		SDUST			65	5	615	281
039-102692C	1		SDUST			65	5	578	266
039-102692C	2		SDUST			65	5	557	265
039-102692C	3		SDUST			65	5	577	270
039-102692D	1		SDUST			65	5	623	251
039-102692D	2		SDUST			65	5	567	255
039-102692D	3		SDUST			65	5	620	252
043-042192A	1	100				18	6		
043-042192A	2	100				18	6		
043-042192A	3	100				18	6		
043-042192B	1	100				18	5.1		
043-042192B	2	100				18	5.1		
043-042192B	3	100				18	5.1		
045-041593A	1	99	OIL		1	12.4	6.7	200	110
045-041593A	2	99	OIL		1	13.2	6.4	240	122
045-041593B	1	99	OIL		1	12.1	4.7	480	140
045-041593B	2	99	OIL		1	11.8	4.7	500	140
156-022087A	1		NGAS						
156-022087A	2		NGAS						
156-032191A	1		NGAS						
156-032191A	2		NGAS						
156-032191A	3		NGAS						
156-051090A	1		NGAS						
156-051090A	2		NGAS						
156-051090A	3		NGAS						
156-061688A	1		NGAS						
156-061688A	2		NGAS						

PARTICLEBOARD - DRYER B TABLE, page 2d

Comments
Pre-dryer dries green to ~65% moisture
Pre-dryer dries green to ~65% moisture
Pre-dryer dries green to ~65% moisture
"Final dryer" consist of two dryers to one stack
"Final dryer" consist of two dryers to one stack
"Final dryer" consist of two dryers to one stack
"Final dryer" consist of two dryers to one stack
"Final dryer" consist of two dryers to one stack
"Final dryer" consist of two dryers to one stack
"Final dryer", one dryer to one stack
"Final dryer", one dryer to one stack
"Final dryer", one dryer to one stack
Face Dryer handling pre-dried material.
Face Dryer handling pre-dried material.
Face Dryer handling pre-dried material.
Core Dryer handling pre-dried material.
Core Dryer handling pre-dried material.
Core Dryer handling pre-dried material.
Mill has 2 dryers. Both dryers vent to a common stack. Dryers combined production in ODTH estimated from press production using a board density of 45 lb/ cubic foot density and 7% trim.
Mill has 2 dryers. Both dryers vent to a common stack. Dryers combined production in ODTH estimated from press production using a board density of 45 lb/ cubic foot density and 7% trim.
Mill has 2 dryers. Both dryers vent to a common stack. Dryers combined production in ODTH estimated from press production using a board density of 45 lb/ cubic foot density and 7% trim.
Mill has 2 dryers. Both dryers vent to a common stack. Dryers combined production in ODTH estimated from press production using a board density of 45 lb/ cubic foot density and 7% trim.
Mill has 2 dryers. Both dryers vent to a common stack. Dryers combined production in ODTH estimated from press production using a board density of 45 lb/ cubic foot density and 7% trim.
Mill has 2 dryers. Both dryers vent to a common stack. Dryers combined production in ODTH estimated from press production using a board density of 45 lb/ cubic foot density and 7% trim.
Mill has 2 dryers. Both dryers vent to a common stack. Dryers combined production in ODTH estimated from press production using a board density of 45 lb/ cubic foot density and 7% trim.
Mill has 2 dryers. Both dryers vent to a common stack. Dryers combined production in ODTH estimated from press production using a board density of 45 lb/ cubic foot density and 7% trim.
Mill has 2 dryers. Both dryers vent to a common stack. Dryers combined production in ODTH estimated from press production using a board density of 45 lb/ cubic foot density and 7% trim.
Mill has 2 dryers. Both dryers vent to a common stack. Dryers combined production in ODTH estimated from press production using a board density of 45 lb/ cubic foot density and 7% trim.

PARTICLEBOARD - DRYER B TABLE, page 3a

Test Code	Unit Code	Run	Production Rate (ODTH)	Production Rate Other (Units)	Core, Surface, or Both	Wood Species 1	% Species 1	Wood Species 2	% Species 2	Wood Species 3
156-061688A	XD156	3	25.2	17.190 MSF 3/4/hr	B	PINE SP	15	UFIR	85	
156-062592A	XD156	1	33.6	22.914 MSF 3/4/hr	B	PINE SP	15	UFIR	85	
156-062592A	XD156	2	33.6	22.914 MSF 3/4/hr	B	PINE SP	15	UFIR	85	
156-062592A	XD156	3	33.6	22.914 MSF 3/4/hr	B	PINE SP	15	UFIR	85	
156-090789A	XD156	1	29.8	20.294 MSF 3/4/hr	B	PINE SP	15	UFIR	85	
156-090789A	XD156	2	29.8	20.294 MSF 3/4/hr	B	PINE SP	15	UFIR	85	
166-092892A	3D166	1			B					
166-092892A	3D166	2	6.1		B					
166-092892A	3D166	3	5.9		B					
166-092992A	4D166	1	11.6		B					
166-092992A	4D166	2	9.7		B					
166-092992A	4D166	3	9.7		B					
166-100192A	1D166	1	16.1		B					
166-100192A	1D166	2	13.9		B					
166-100192A	1D166	3	13.8		B					
166-100192B	1D166	1	10.6		B					
166-100192B	1D166	2	10.1		B					
166-100192B	1D166	3	8.3		B					
166-100292A	5D166	1	7.7		B					
166-100292A	5D166	2	11.1		B					
166-100292A	5D166	3	10.1		B					
166-100692A	2D166	1	8.5		B					
166-100692A	2D166	2	8.9		B					
166-100692B	2D166	1	8.9		B					
166-100692B	2D166	2	10.6		B					
167-021892A	4D167	1	9.26			HWOOD	100			
167-021892A	4D167	2	9.22			HWOOD	100			
167-021892A	4D167	3	8.04			HWOOD	100			
167-021892A	4D167	4	7.78			HWOOD	100			
167-021892A	4D167	5	9.47			HWOOD	100			
167-021892A	4D167	6	9.53			HWOOD	100			
167-021892A	4D167	7	8.12			HWOOD	100			
167-021892A	4D167	8	7.75			HWOOD	100			
167-061988A	3D167	1	10.17	29500 lb/hr WET		HWOOD	100			
167-061988B	3D167	1	10.14	29400 lb/hr WET		HWOOD	100			
167-062288A	1D167	1	10.78	28,000 lb/hr WET		ASPEN		HWOOD		
167-062288A	1D167	2	10.61	28,000 lb/hr WET		ASPEN		HWOOD		

PARTICLEBOARD - DRYER B TABLE, page 3b

% Species 3	Hot Air Source 1	% Source 1	Hot Air Source 2	% Source 2	Hot Air Source 3	% Source 3	Type Fuel 1	Amount Fuel 1
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	DFIRE	100					SDUST	1250 lb/hr
	DFIRE	100					SDUST	1250 lb/hr
	DFIRE	100					SDUST	1250 lb/hr
	DFIRE	100					SDUST	2200 lb/hr
	DFIRE	100					SDUST	2200 lb/hr
	DFIRE	100					SDUST	2200 lb/hr
	SUSP BU	100					SDUST	1000 lb/hr
	SUSP BU	100					SDUST	1000 lb/hr
	SUSP BU	100					SDUST	1000 lb/hr
	SUSP BU	100					SDUST	1200 lb/hr
	SUSP BU	100					SDUST	1200 lb/hr
	SUSP BU	100					SDUST	1200 lb/hr
	DFIRE	100					NGAS	
	DFIRE	100					NGAS	
	DFIRE	100					NGAS	
	SUSP BU	100					SDUST	1000 lb/hr
	SUSP BU	100					SDUST	1000 lb/hr
	SUSP BU	100					SDUST	800 lb/hr
	SUSP BU	100					SDUST	800 lb/hr
	SUSP BU	100						
	SUSP BU	100						
	SUSP BU	100						
	SUSP BU	100						
	SUSP BU	100						
	SUSP BU	100						
	SUSP BU	100						
	SUSP BU	100						
	SUSP BU	100					SDUST	
	SUSP BU	100					NGAS	
	SUSP BU	100					SDUST	1076 lb/hr
	SUSP BU	100					SDUST	1076 lb/hr

PARTICLEBOARD - DRYER B TABLE, page 3c

Test Code	Run	% Fuel 1	Type Fuel 2	Amount Fuel 2	% Fuel 2	Inlet Moisture (%OD)	Outlet Moisture (%OD)	Inlet Temp (F)	Outlet Temp (F)
156-061688A	3		NGAS						
156-062592A	1		NGAS					574	224
156-062592A	2		NGAS					542	209
156-062592A	3		NGAS					611	215
156-090789A	1		NGAS						
156-090789A	2		NGAS						
166-092892A	1					100	27.6	898	190
166-092892A	2					117.4	18	865	194
166-092892A	3					97.6	22	849	194
166-092992A	1	65	NGAS		35	165	30.9	944	177
166-092992A	2	65	NGAS		35	108	22	830	176
166-092992A	3	65	NGAS		35	105	21.1	787	171
166-100192A	1	50	NGAS		50	24.5	2.1	579	182
166-100192A	2	50	NGAS		50	22.5	1.9	486	182
166-100192A	3	50	NGAS		50	18.6	6.8	499	186
166-100192B	1	50	NGAS		50	30.9	2.4	514	186
166-100192B	2	50	NGAS		50	33.1	2.1	505	188
166-100192B	3	50	NGAS		50	31.5	2.1	487	186
166-100292A	1	100				12.7	4.5	295	202
166-100292A	2	100				11.1	4.6	297	202
166-100292A	3	100				10.7	3.7	295	201
166-100692A	1	20	NGAS		80	24.7	6.4		
166-100692A	2	20	NGAS		80	18.3	5.6	299	141
166-100692B	1	20	NGAS		80	18.2	5.9	251	133
166-100692B	2	20	NGAS		80	16.4	6.2	246	133
167-021892A	1					87.3	2.5	978	215
167-021892A	2					86.9	2.4	1021	215
167-021892A	3					82.5	2.6	715	207
167-021892A	4					81.8	2.8	701	207
167-021892A	5					90.5	2.6	1018	217
167-021892A	6					89.4	2.8	1012	216
167-021892A	7					87.3	3.2	840	202
167-021892A	8					87.6	3.3	810	203
167-061988A	1	100				45	3	810	
167-061988B	1	100				45	3	800	
167-062288A	1		NGAS			29.9	3.4	606	216
167-062288A	2		NGAS			32	3.7	586	213

PARTICLEBOARD - DRYER B TABLE, page 3d

Comments
Mill has 2 dryers. Both dryers vent to a common stack. Dryers combined production in ODTH estimated from press production using a board density of 45 lb/ cubic foot density and 7% trim.
Mill has 2 dryers. Both dryers vent to a common stack. Dryers combined production in ODTH estimated from press production using a board density of 45 lb/ cubic foot density and 7% trim.
Mill has 2 dryers. Both dryers vent to a common stack. Dryers combined production in ODTH estimated from press production using a board density of 45 lb/ cubic foot density and 7% trim.
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Mill has 2 dryers. Both dryers vent to a common stack. Dryers combined production in ODTH estimated from press production using a board density of 45 lb/ cubic foot density and 7% trim.
Pre-Dryer, used to dry furnish to approx. 25% moisture (dry basis).
Pre-Dryer, used to dry furnish to approx. 25% moisture (dry basis).
Pre-Dryer, used to dry furnish to approx. 25% moisture (dry basis).
Pre-Dryer, used to dry furnish to approx. 25% moisture (dry basis).
Pre-Dryer, used to dry furnish to approx. 25% moisture (dry basis).
Pre-Dryer, used to dry furnish to approx. 25% moisture (dry basis).
Comparison of Reclaim/No reclaim for Dryer 1.
Comparison of Reclaim/No reclaim for Dryer 1.
Comparison of Reclaim/No reclaim for Dryer 1.
Partially dried material entering dryer.
Partially dried material entering dryer.
Partially dried material entering dryer.
Partially dried furnish being processed.
Partially dried furnish being processed.
Partially dried furnish being processed.
Partially dried furnish being processed.
Comparison of inlet temperature available in these 8 runs, burner fuel not specified, probably sanderdust.
Comparison of inlet temperature available in these 8 runs, burner fuel not specified, probably sanderdust.
Comparison of inlet temperature available in these 8 runs, burner fuel not specified, probably sanderdust.
Comparison of inlet temperature available in these 8 runs, burner fuel not specified, probably sanderdust.
Comparison of inlet temperature available in these 8 runs, burner fuel not specified, probably sanderdust.
Comparison of inlet temperature available in these 8 runs, burner fuel not specified, probably sanderdust.
Comparison of inlet temperature available in these 8 runs, burner fuel not specified, probably sanderdust.
Comparison of inlet temperature available in these 8 runs, burner fuel not specified, probably sanderdust.
Comparison of natural gas and sanderdust available.
Comparison of natural gas and sanderdust available.

PARTICLEBOARD - DRYER B TABLE, page 4a

Test Code	Unit Code	Run	Production Rate (ODTH)	Production Rate Other (Units)	Core, Surface, or Both	Wood Species 1	% Species 1	Wood Species 2	% Species 2	Wood Species 3
167-062288A	1D167	3	10.63	28,000 lb/hr WET		ASPEN		HWOOD		
167-062288B	2D167	1	9.42	20,000 lb/hr WET		PINE SP	75	HWOOD	25	
167-062288B	2D167	2	9.36	20,000 lb/hr WET		PINE SP	75	HWOOD	25	
167-062288B	2D167	3	9.31	20,000 lb/hr WET		PINE SP	75	HWOOD	25	
167-082189A	3D167	1	9		B	HWOOD	100			
167-082189A	3D167	2	9		B	HWOOD	100			
167-082189A	3D167	3	9.2		B	HWOOD	100			
167-082389A	1D167	1	8.79	25,000 lb/hr WET		ASPEN	100			
167-082389A	1D167	2	8.95	25,000 lb/hr WET		ASPEN	100			
167-082389A	1D167	3	8.97	25,000 lb/hr WET		ASPEN	100			
167-082589A	2D167	1	6.36			HWOOD	100			
167-082589A	2D167	2	6.39			HWOOD	100			
167-091890A	4D167	1	11.3		B	HWOOD	100			
167-091890A	4D167	2	11.4		B	HWOOD	100			
167-091890A	4D167	3	11.4		B	HWOOD	100			
167-091890A	4D167	4	11		B	HWOOD	100			
167-091990A	4D167	1	10.3		B	HWOOD	100			
167-091990A	4D167	2	8.1		B	HWOOD	100			
167-100490A	5D167	1	14.1		B	HWOOD	65	PINE SP	35	
167-100490A	5D167	2	14.1		B	HWOOD	65	PINE SP	35	
167-100490A	5D167	3	12.2		B	HWOOD	65	PINE SP	35	
167-100490A	5D167	4	15.2		B	HWOOD	65	PINE SP	35	
167-100588A	3D167	1	10.65	29,400 lb/hr WET		HWOOD	100			
167-100588A	3D167	2	9.2	25,400 lb/hr WET		HWOOD	100			
167-100588A	3D167	3	9.41	25,400 lb/hr WET		HWOOD	100			
167-102090A	4D167	1	11.77	32,000 lb/hr WET		HWOOD	100			
167-102090A	4D167	2	12.13	33,000 lb/hr WET		HWOOD	100			
167-102090A	4D167	3	11.68	32,000 lb/hr WET		HWOOD	100			
167-102090B	4D167	1	11.43	32,000 lb/hr WET		HWOOD	100			
167-102090B	4D167	2	11.07	31,000 lb/hr WET		HWOOD	100			
167-102090B	4D167	3	10.64	30,000 lb/hr WET		HWOOD	100			
167-102288A	3D167	1	10.58	29,400 lb/hr WET		HWOOD	100			
167-102288A	3D167	2	10.89	29,400 lb/hr WET		HWOOD	100			
167-102288B	3D167	1	10.5	29,400 lb/hr WET		HWOOD	100			
167-102390A	5D167	1	11.25		B	HWOOD	65	PINE SP	35	
167-102390A	5D167	2	11.6		B	HWOOD	65	PINE SP	35	
167-102390A	5D167	3	11.1		B	HWOOD	65	PINE SP	35	
167-102588A	3D167	1	10.43	29,400 lb/hr WET		HWOOD	100			
167-102588A	3D167	2	10.21	29,400 lb/hr WET		HWOOD	100			
182-090689A	1D182	1	19.5			DFIR	90	UWOOD	10	
182-090689A	1D182	2	19.5			DFIR	90	UWOOD	10	
182-090689A	1D182	3	19.5			DFIR	90	UWOOD	10	
182-090689B	1D182	1	19.5			DFIR	90	UWOOD	10	

PARTICLEBOARD - DRYER B TABLE, page 4b

% Species 3	Hot Air Source 1	% Source 1	Hot Air Source 2	% Source 2	Hot Air Source 3	% Source 3	Type Fuel 1	Amount Fuel 1
	SUSP BU	100					SDUST	1076 lb/hr
	SUSP BU	100					NGAS	
	SUSP BU	100					NGAS	
	SUSP BU	100					NGAS	
	SUSP BU	100					NGAS	
	SUSP BU	100					NGAS	
	SUSP BU	100					NGAS	
	SUSP BU	100					SDUST	1076 lb/hr
	SUSP BU	100					SDUST	1076 lb/hr
	SUSP BU	100					SDUST	1076 lb/hr
	SUSP BU	100					SDUST	1808 lb/hr
	SUSP BU	100					SDUST	1808 lb/hr
	SUSP BU	100					SDUST	2000 lb/hr
	SUSP BU	100					SDUST	2000 lb/hr
	SUSP BU	100					SDUST	2000 lb/hr
	SUSP BU	100					SDUST	2000 lb/hr
	SUSP BU	100					NGAS	10 MCF/HR
	SUSP BU	100					NGAS	10 MCF/HR
	SUSP BU	100					SDUST	3170 lb/hr
	SUSP BU	100					SDUST	3170 lb/hr
	SUSP BU	100					SDUST	3170 lb/hr
	SUSP BU	100					SDUST	3170 lb/hr
	SUSP BU	100					NGAS	
	SUSP BU	100					NGAS	
	SUSP BU	100					NGAS	
	SUSP BU	100					SDUST	2000 lb/hr
	SUSP BU	100					SDUST	2000 lb/hr
	SUSP BU	100					SDUST	2000 lb/hr
	SUSP BU	100					NGAS	10.4 MCF/hr
	SUSP BU	100						
	SUSP BU	100						
	SUSP BU	100					NGAS	
	SUSP BU	100						
	SUSP BU	100					SDUST	3915 lb/hr
	SUSP BU	100					SDUST	2833 lb/hr
	SUSP BU	100					SDUST	2833 lb/hr
	SUSP BU	100					SDUST	2833 lb/hr
	SUSP BU	100					SDUST	3900 lb/hr
	SUSP BU	100					SDUST	3900 lb/hr
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	

PARTICLEBOARD - DRYER B TABLE, page 4c

Test Code	Run	% Fuel 1	Type Fuel 2	Amount Fuel 2	% Fuel 2	Inlet Moisture (%OD)	Outlet Moisture (%OD)	Inlet Temp (F)	Outlet Temp (F)
167-062288A	3		NGAS			31.7	4	586	218
167-062288B	1	100				6.2	5.4	112	99
167-062288B	2	100				6.8	5.4	111	99
167-062288B	3	100				7.4	5.5	121	103
167-082189A	1	100				39	2	732	212
167-082189A	2	100				39	2	709	212
167-082189A	3	100				36	3	689	212
167-082389A	1		NGAS			42.2	4	720	236
167-082389A	2		NGAS			39.7	3.6	683	232
167-082389A	3		NGAS			39.3	3.6	690	229
167-082589A	1		NGAS			41.2	4.8	642	198
167-082589A	2		NGAS			39.9	3.8	690	205
167-091890A	1	100				37	3.2	900	204
167-091890A	2	100				36	3	898	204
167-091890A	3	100				36	3	853	
167-091890A	4	100				36	2.8	830	
167-091990A	1	100				35	2.8	788	
167-091990A	2	100				35	3	655	
167-100490A	1		NGAS	2.5 MCF/hr			4.1	1004	229
167-100490A	2		NGAS	2.5 MCF/hr		32	3.9	990	233
167-100490A	3		NGAS	2.5 MCF/hr		31	4.3	828	225
167-100490A	4		NGAS	2.5 MCF/hr			4.6	1089	226
167-100588A	1	100				38	2.3	750	215
167-100588A	2	100				38	2.3	730	215
167-100588A	3	100				35	2.3	710	215
167-102090A	1		NGAS	1.2 MCF/hr		36	3.5	916	200
167-102090A	2		NGAS	1.2 MCF/hr		36	3.3	923	201
167-102090A	3		NGAS	1.2 MCF/hr		37	3.2	924	201
167-102090B	1	100				40	3.3	923	205
167-102090B	2					40	3.2	864	202
167-102090B	3					41	3.2	877	202
167-102288A	1	100				39	2.6	787	218
167-102288A	2					35	2.3	766	219
167-102288B	1	100				40	2.4	750	218
167-102390A	1		NGAS	1.18 MCF/hr		33	4.6	805	229
167-102390A	2		NGAS	1.18 MCF/hr		34	4.9	837	228
167-102390A	3		NGAS	1.18 MCF/hr		35	4.6	824	229
167-102588A	1	100				41	3	829	221
167-102588A	2	100				44	2	894	224
182-090689A	1	100				44	13.5	528	137
182-090689A	2	100				62	12.9	555	139
182-090689A	3	100				48	12.7	538	138
182-090689B	1	100				44	13.5	528	137

PARTICLEBOARD - DRYER B TABLE, page 4d

Comments
Comparison of wet and dry furnish available.
Comparison of wet and dry furnish available.
Comparison of wet and dry furnish available.
Species are Aspen, Maple, Basswood, Elm, and Ash.
Species are Aspen, Maple, Basswood, Elm, and Ash.
Species are Aspen, Maple, Basswood, Elm, and Ash.
Particle size data available in report.
Particle size data available in report.
Species are Aspen, Maple, Basswood, Elm, and Ash. Testing conducted after new control equipment had been installed.
Species are Aspen, Maple, Basswood, Elm, and Ash. Testing conducted after new control equipment had been installed.
Species are Aspen, Maple, Basswood, Elm, and Ash. Testing conducted after new control equipment had been installed.
Species are Aspen, Maple, Basswood, Elm, and Ash. Testing conducted after new control equipment had been installed.
Comparison natural gas to sanderdust available.
Comparison natural gas to sanderdust available.
Comparison of sanderdust and natural gas available; A&B Test Codes.
Comparison of sanderdust and natural gas available; A&B Test Codes.
Comparison of sanderdust and natural gas available; A&B Test Codes.
Comparison of sanderdust and natural gas available; A&B Test Codes.
Comparison of sanderdust and natural gas available; A&B Test Codes.
Comparison of sanderdust and natural gas available; A&B Test Codes.
Comparison of sanderdust and natural gas available.
Comparison of sanderdust and natural gas available.
Comparison of sanderdust and natural gas available.
E-tube outlet; system tested 3 places simultaneously.
E-tube outlet; system tested 3 places simultaneously.
E-tube outlet; system tested 3 places simultaneously.
Dryer Inlet; following DF burner; system tested 3 places simultaneously.

PARTICLEBOARD - DRYER B TABLE, page 5a

Test Code	Unit Code	Run	Production Rate (ODTH)	Production Rate Other (Units)	Core, Surface, or Both	Wood Species 1	% Species 1	Wood Species 2	% Species 2	Wood Species 3
182-090689B	1D182	2	19.5			DFIR	90	UWOOD	10	
182-090689B	1D182	3	19.5			DFIR	90	UWOOD	10	
182-090689C	1D182	1	19.5			DFIR	90	UWOOD	10	
182-090689C	1D182	2	19.5			DFIR	90	UWOOD	10	
182-090689C	1D182	3	19.5			DFIR	90	UWOOD	10	
182-090889A	2D182	1	19.5			DFIR	90	UWOOD	10	
182-090889A	2D182	2	19.5			DFIR	90	UWOOD	10	
182-090889A	2D182	3	19.5			DFIR	90	UWOOD	10	
182-100589A	1D182	1	19.5			DFIR	90	UWOOD	10	
182-100589A	1D182	2	19.5			DFIR	90	UWOOD	10	
182-100589A	1D182	3	19.5			DFIR	90	UWOOD	10	
182-100589B	1D182	1	19.5			DFIR	90	UWOOD	10	
182-100589B	1D182	2	19.5			DFIR	90	UWOOD	10	
182-100589B	1D182	3	19.5			DFIR	90	UWOOD	10	
202-071393A	1D202	1	12.1		S	PINE SP	75	DFIR	10	SWOOD
202-071393A	1D202	2	12.1		S	PINE SP	75	DFIR	10	SWOOD
202-071393B	2D202	1	10.2		C	PINE SP	75	DFIR	10	SWOOD
202-071393B	2D202	2	10.2		C	PINE SP	75	DFIR	10	SWOOD
202-071592C	XD202	1	19.11		B	PINE SP	75	DFIR	10	SWOOD
202-071592C	XD202	2	19.11		B	PINE SP	75	DFIR	10	SWOOD
202-071592C	XD202	3	19.11		B	PINE SP	75	DFIR	10	SWOOD
202-071592D	1D202	1	12.81		S	PINE SP	75	DFIR	10	SWOOD
202-071592D	1D202	2	12.81		S	PINE SP	75	DFIR	10	SWOOD
202-071592D	1D202	3	12.81		S	PINE SP	75	DFIR	10	SWOOD
202-071592E	2D202	1	11.38		C	PINE SP	75	DFIR	10	SWOOD
202-071592E	2D202	2	11.38		C	PINE SP	75	DFIR	10	SWOOD
202-071592E	2D202	3	11.38		C	PINE SP	75	DFIR	10	SWOOD
202-081788A	XD202	1	22.67		B	PINE SP	75	DFIR	10	SWOOD
202-081788A	XD202	2	22.67		B	PINE SP	75	DFIR	10	SWOOD
202-081788A	XD202	3	22.67		B	PINE SP	75	DFIR	10	SWOOD
228-091492A	3D228	1	11.12		C	PINE SP	100			
228-091492A	3D228	2	12.9		C	PINE SP	100			
228-091492A	3D228	3	12.9		C	PINE SP	100			
228-091492B	3D228	1	12.9		C	PINE SP	100			
228-091492B	3D228	2	12.9		C	PINE SP	100			
228-091492B	3D228	3	12.9		C	PINE SP	100			
228-091592A	3D228	1	13.13		C	PINE SP	100			
228-091592A	3D228	2	12.47		C	PINE SP	100			
228-091592A	3D228	3	11.86		C	PINE SP	100			
228-091592B	3D228	1	12.31		C	PINE SP	100			
228-091592B	3D228	2	12.31		C	PINE SP	100			
228-091592B	3D228	3	12.31		C	PINE SP	100			
228-091692A	1D228	1	9.64		S	PINE SP	60	HWOOD	40	

PARTICLEBOARD - DRYER B TABLE, page 5b

% Species 3	Hot Air Source 1	% Source 1	Hot Air Source 2	% Source 2	Hot Air Source 3	% Source 3	Type Fuel 1	Amount Fuel 1
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
15	IHEAT	75	GAS B	25			STEAM	
15	IHEAT	75	GAS B	25			STEAM	
15	IHEAT	75	GAS B	25			STEAM	
15	IHEAT	75	GAS B	25			STEAM	
15	BOTH						STEAM	
15	BOTH						STEAM	
15	BOTH						STEAM	
15	IHEAT	75	GAS B	25			STEAM	
15	IHEAT	75	GAS B	25			STEAM	
15	IHEAT	75	GAS B	25			STEAM	
15	IHEAT	75	GAS B	25			STEAM	
15	IHEAT	75	GAS B	25			STEAM	
15	IHEAT	75	GAS B	25			STEAM	
15	BOTH						STEAM	
15	BOTH						STEAM	
15	BOTH						STEAM	
	FLUE GAS	25	SUSP BU	75			SDUST	2,940 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,020 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,020 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,940 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,940 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,940 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,020 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,020 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,020 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,020 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,020 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,020 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,670 lbs/hr

PARTICLEBOARD - DRYER B TABLE, page 5c

Test Code	Run	% Fuel 1	Type Fuel 2	Amount Fuel 2	% Fuel 2	Inlet Moisture (%OD)	Outlet Moisture (%OD)	Inlet Temp (F)	Outlet Temp (F)
182-090689B	2	100				62	12.9	555	139
182-090689B	3	100				48	12.7	538	138
182-090689C	1	100				44	13.5	528	137
182-090689C	2	100				62	12.9	555	139
182-090689C	3	100				48	12.7	538	138
182-090889A	1	100				13.5	3.2	496	302
182-090889A	2	100				12.9	2.5	495	286
182-090889A	3	100				12.7	3	503	283
182-100589A	1	100							
182-100589A	2	100							
182-100589A	3	100							
182-100589B	1	100							
182-100589B	2	100							
182-100589B	3	100							
202-071393A	1	75	NGAS		25	8	3.35		
202-071393A	2	75	NGAS		25	7.9	3		
202-071393B	1	75	NGAS		25	8	3.2		
202-071393B	2	75	NGAS		25	7.9	3		
202-071592C	1		NGAS			13.5	2		
202-071592C	2		NGAS			13.5	2		
202-071592C	3		NGAS			13.5	2		
202-071592D	1	75	NGAS		25	13.5	2		
202-071592D	2	75	NGAS		25	13.5	2		
202-071592D	3	75	NGAS		25	13.5	2		
202-071592E	1	75	NGAS		25	13.5	2		
202-071592E	2	75	NGAS		25	13.5	2		
202-071592E	3	75	NGAS		25	13.5	2		
202-081788A	1		NGAS						
202-081788A	2		NGAS						
202-081788A	3		NGAS						
228-091492A	1	100				100	3.2	940	240
228-091492A	2	100				108	2.15	990	260
228-091492A	3	100				108	2.15	990	260
228-091492B	1	100				100	3.2	940	240
228-091492B	2	100				108	2.15	990	260
228-091492B	3	100				108	2.15	990	260
228-091592A	1	100				108	2.15	990	260
228-091592A	2	100				108	2.15	990	260
228-091592A	3	100				108	2.15	990	260
228-091592B	1	100				108	2.15	990	260
228-091592B	2	100				108	2.15	990	260
228-091592B	3	100				108	2.15	990	260
228-091692A	1					85.2	6.61	730	230

PARTICLEBOARD - DRYER B TABLE, page 5d

Comments
Dryer Inlet; following DF burner; system tested 3 places simultaneously.
Dryer Inlet; following DF burner; system tested 3 places simultaneously.
Quench Inlet; system tested 3 places simultaneously.
Quench Inlet; system tested 3 places simultaneously.
Quench Inlet; system tested 3 places simultaneously.
Tube dryer
Tube dryer
Tube dryer
E- tube Outlet
E- tube Outlet
E- tube Outlet
Quench Inlet
Quench Inlet
Quench Inlet
2 Dryers with common stack.
2 Dryers with common stack.
2 Dryers with common stack.
2 Dryers with common stack.
2 Dryers with common stack.
2 Dryers with common stack.
2 Dryers with common stack.
2 Dryers with common stack.
2 Dryers with common stack.

PARTICLEBOARD - DRYER B TABLE, page 6a

Test Code	Unit Code	Run	Production Rate (ODTH)	Production Rate Other (Units)	Core, Surface, or Both	Wood Species 1	% Species 1	Wood Species 2	% Species 2	Wood Species 3
228-091692A	1D228	2	9.64		S	PINE SP	60	HWOOD	40	
228-091692A	1D228	3	8.71		S	PINE SP	60	HWOOD	40	
228-091692B	1D228	1	9.64		S	PINE SP	60	HWOOD	40	
228-091692B	1D228	2	9.64		S	PINE SP	60	HWOOD	40	
228-091692B	1D228	3	8.71		S	PINE SP	60	HWOOD	40	
228-091692C	1D228	1	9.64		S	PINE SP	60	HWOOD	40	
228-091692C	1D228	2	9.64		S	PINE SP	60	HWOOD	40	
228-091692C	1D228	3	8.71		S	PINE SP	60	HWOOD	40	
228-091692D	1D228	1	9.64		S	PINE SP	60	HWOOD	40	
228-091692D	1D228	2	9.64		S	PINE SP	60	HWOOD	40	
228-091692D	1D228	3	8.22		S	PINE SP	60	HWOOD	40	
228-091692E	3D228	1	11.12		C	PINE SP	100			
228-091692E	3D228	2	12.31		C	PINE SP	100			
228-091692E	3D228	3	12.22		C	PINE SP	100			
228-091692F	3D228	1	13.13		C	PINE SP	100			
228-091692F	3D228	2	12.47		C	PINE SP	100			
228-091692F	3D228	3	11.86		C	PINE SP	100			
228-091792A	1D228	1	9.64		S	PINE SP	60	HWOOD	40	
228-091792A	1D228	2	9.64		S	PINE SP	60	HWOOD	40	
228-091792A	1D228	3	8.66		S	PINE SP	60	HWOOD	40	
228-091792B	3D228	1	12.31		C	PINE SP	100			
228-091792B	3D228	2	12.31		C	PINE SP	100			
228-091792B	3D228	3	12.31		C	PINE SP	100			

PARTICLEBOARD - DRYER B TABLE, page 6b

% Species 3	Hot Air Source 1	% Source 1	Hot Air Source 2	% Source 2	Hot Air Source 3	% Source 3	Type Fuel 1	Amount Fuel 1
	FLUE GAS	25	SUSP BU	75			SDUST	2,670 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,670 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,670 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,670 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,670 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,670 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,670 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,670 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,670 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,670 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,670 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,940 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,940 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,940 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,020 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,020 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,020 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,020 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,020 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,020 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,710 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	2,710 lbs/hr
	FLUE GAS	25	SUSP BU	75			SDUST	3,310 lbs/hr

PARTICLEBOARD - DRYER B TABLE, page 6c

Test Code	Run	% Fuel 1	Type Fuel 2	Amount Fuel 2	% Fuel 2	Inlet Moisture (%OD)	Outlet Moisture (%OD)	Inlet Temp (F)	Outlet Temp (F)
228-091692A	2					85.2	6.61	730	230
228-091692A	3					85.2	6.61	730	230
228-091692B	1					85.2	6.61	730	230
228-091692B	2					85.2	6.61	730	230
228-091692B	3					85.2	6.61	730	230
228-091692C	1					85.2	6.61	730	230
228-091692C	2					85.2	6.61	730	230
228-091692C	3					85.2	6.61	730	230
228-091692D	1					85.2	6.61	730	230
228-091692D	2					85.2	6.61	730	230
228-091692D	3					85.2	6.61	730	230
228-091692E	1	100				100	3.2	940	240
228-091692E	2	100				108	2.15	990	260
228-091692E	3	100				108	2.15	990	260
228-091692F	1	100				108	2.15	990	260
228-091692F	2	100				108	2.15	990	260
228-091692F	3	100				108	2.15	990	260
228-091792A	1					85.2	7.99	630	220
228-091792A	2					85.2	7.99	630	220
228-091792A	3					85.2	7.99	630	220
228-091792B	1					108	2.56	980	260
228-091792B	2					108	2.56	980	260
228-091792B	3					117	2.56	1050	260

PARTICLEBOARD - DRYER B TABLE, page 6d

Comments

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PARTICLEBOARD - PRESS A TABLE, page 1a of 1(a)

Unit Code	Equiptment Manufacturer	Size and Openings	Product	Number of Press Vents	Comments
1P030		4x24 14 openings	PB	3	
1P039	B. & Von Huellen	8x28 14 openings	PB	7	
1P166		4x16 10 openings	PB	4	4x16 ft, 10 openings.
1P167			PB	4	Steam through press.
1P202			PB	4	No survey forms submitted with report.
1P228		10x25 5openings	PB	6	
2P166		5X24 14 openings	PB	4	
2P202			PB	5	No survey forms submitted with report.

PARTICLEBOARD - PRESS B TABLE, page 1a of 1(a-d)

Test Code	Unit Code	Run	Production Rate MSF 3/4/hr	Production Rate Other (Units)	Press Temp. (F)	Press Cycle Time (min.)	Nominal Thickness (inches)	Board Density (lb/ft3)	Moisture Content (%)
030-012193A	1P030	1	17.64		310		3/4 / 9/16	53	
030-012193A	1P030	2	10.51		310		9/16	53	
030-012193A	1P030	3	15.9		310		9/16	53	
030-012193B	1P030	1	17.44		310		3/4	53	
030-012193C	1P030	1	16.5		310			53	
030-012193C	1P030	2	10.5		310			53	
030-012193C	1P030	3	15.9		310			53	
039-102692E	1P039	1	33		330	3.8	5/8	43	10
039-102692E	1P039	2	33		330	3.8	5/8	43	10
039-102692E	1P039	3	33		330	3.8	5/8	43	10
166-100892A	1P166	1	7.68						
166-100892A	1P166	2	7.68						
166-100892A	1P166	3	6.83						
166-100892B	2P166	1	16.8						
166-100892B	2P166	2	21.5						
167-102190B	1P167	1	9.986				1.625		45
167-102588B	1P167	1	8.3				1.5		
167-102588B	1P167	2	8.3				1.5		
167-102588B	1P167	3	8.3				1.5		
202-030194A	1P202	1	12.16		320	5.6	3/4		
202-030194B	2P202	1	14.22		320	5.5	3/4		
228-091992H	1P228	1	15.5		350	2.63	.625	42.5	3
228-091992H	1P228	2	19.2		350	4.21	1.0	42.5	3
228-091992H	1P228	3	13.7		350	2.63	.625	42.5	3
228-091992J	1P228	1	14.4		350	2.63	.625	42.5	3
228-091992J	1P228	2	19.2		350	4.21	1.0	42.5	3
228-091992J	1P228	3	13.7		350	2.63	.625	42.5	3
228-091992K	1P228	1	15.5		350	2.11	.625	42.5	3
228-091992K	1P228	2	19.2		350	4.21	1.0	42.5	3
228-091992K	1P228	3	13.7		350	4.21	.625	42.5	3

PARTICLEBOARD - PRESS B TABLE, page 1b

Wood Species 1	% Species 1	Wood Species 2	% Species 2	Wood Species 3	% Species 3	Type Adhesive 1	Application Rate 1 (Units)	Type Adhesive 2
SY PINE						UF	8.6%	
SY PINE						UF	6.9%	
SY PINE						UF	8.0%	
SY PINE						UF	7.1%	
SY PINE						UF	7.8%	
SY PINE						UF	6.8%	
SY PINE						UF	8.0%	
HWOOD	55	SWOOD	45			UF	10.4 lb/ 100 lb	
HWOOD	55	SWOOD	45			UF	10.4 lb/ 100 lb	
HWOOD	55	SWOOD	45			UF	10.4 lb/ 100 lb	
						UF		
						UF		
						UF		
						UF		
						UF		
ASPEN		MAPLE		PINE SP		UF		
HWOOD	100					UF		
HWOOD	100					UF		
HWOOD	100					UF		
PINE SP	70	SWOOD	30			UF		
PINE SP	70	SWOOD	30			UF		
PINE SP	80	HWOOD	20			UF	2.08 Mlbs/hr	
PINE SP	80	HWOOD	20			UF	2.45 Mlbs/hr	
PINE SP	80	HWOOD	20			UF	2.36 Mlbs/hr	
PINE SP	80	HWOOD	20			UF	2.37 Mlbs/hr	
PINE SP	80	HWOOD	20			UF	2.52 Mlbs/hr	
PINE SP	80	HWOOD	20			UF	2.36 Mlbs/hr	
PINE SP	80	HWOOD	20			UF	2.08 Mlbs/hr	
PINE SP	80	HWOOD	20			UF	2.45 Mlbs/hr	
PINE SP	80	HWOOD	20			UF	2.36 Mlbs/hr	

PARTICLEBOARD - PRESS B TABLE, page 1c

Test Code	Run	Application Rate 2	Core & Surface Different?	Formaldehyde Mole Ratio	% Free Formaldehyde	Any Catalyst or Scavenger?	Wax Application Rate (Units)
030-012193A	1					Y	
030-012193A	2					Y	
030-012193A	3					Y	
030-012193B	1					Y	
030-012193C	1					Y	
030-012193C	2					Y	
030-012193C	3					Y	
039-102692E	1		Y			Y	0.6%
039-102692E	2		Y			Y	0.6%
039-102692E	3		Y			Y	0.6%
166-100892A	1						
166-100892A	2						
166-100892A	3						
166-100892B	1						
166-100892B	2						
167-102190B	1						
167-102588B	1						
167-102588B	2						
167-102588B	3						
202-030194A	1						
202-030194B	1						
228-091992H	1		Y			Y	105 lb/hr
228-091992H	2		Y			Y	105 lb/hr
228-091992H	3		Y			Y	105 lb/hr
228-091992J	1		Y			Y	120 lb/hr
228-091992J	2		Y			Y	128 lb/hr
228-091992J	3		Y			Y	120 lb/hr
228-091992K	1		Y			Y	105 lb/hr
228-091992K	2		Y			Y	124 lb/hr
228-091992K	3		Y			Y	120 lb/hr

PARTICLEBOARD - PRESS B TABLE, page 1d

Other Additives ?	Comments
	Formaldehyde scavenger used.
	Formaldehyde scavenger used.
	Formaldehyde scavenger used.
	No survey forms, species from previous report at same facility.
	No survey forms, species from previous report at same facility.
Y	Press and cooler are separate, emissions are not summed.
Y	Press and cooler are separate, emissions are not summed.
Y	Press and cooler are separate, emissions are not summed.
Y	Press and cooler are separate, emissions are not summed.
Y	Press and cooler are separate, emissions are not summed.
Y	Press and cooler are separate, emissions are not summed.
Y	Press and cooler are separate, emissions are not summed.
Y	Press and cooler are separate, emissions are not summed.
Y	Press and cooler are separate, emissions are not summed.

PARTICLEBOARD - COOLER B TABLE, page 1a of 1(a-b)

Test Code	Unit Code	Run	Production Rate (MSF /3/4/hr.)	Nominal Thickness (inches)	Board Density (lb/ft3)	Moisture Content (%)	Wood Species 1	% Species 1	Wood Species 2	% Species 2
166-100892C	1C166	1	20.2							
166-100892C	1C166	2	20.2							
167-102090D	1C167	1	9.986	1.625			HWOOD	100		
167-102588C	1C167	1	8.3	1.5			HWOOD	100		
167-102588C	1C167	2	8.3	1.5			HWOOD	100		
167-102588C	1C167	3	8.3	1.5			HWOOD	100		
202-030194C	1C202	1	12.16	3/4			PINE SP	70	SWOOD	30
202-030194D	2C202	1	14.22	3/4			PINE SP	70	SWOOD	30
228-092292A	1C228	1	14.25	.625						
228-092292A	1C228	2	14.25	.625						
228-092292A	1C228	3	12.83	.625						
228-092392A	1C228	1	13.25	.625						

PARTICLEBOARD - COOLER B TABLE, page 1b

Type Adh-esive	Applica-tion Rate (Units)	Wax Application Rate (Units)	Comments
UF			
UF			
UF			Average of 3 runs.
UF			
UF			
UF			
UF			Survey forms not submitted.
UF			Survey forms not submitted.
UF			Press and cooler emissions are separate, not summed.
UF			Press and cooler emissions are separate, not summed.
UF			Press and cooler emissions are separate, not summed.
UF			Press and cooler emissions are separate, not summed.

PARTICLEBOARD - MISCELLANEOUS EQUIPMENT TABLE, page 1a of 3(a-b)

Test Code	Unit Code	Run	Description	Production Rate (Units)	Product	Initial PCD	Final PCD	Wood Species 1	% Species 1
022-082190A	1F022	1	Forming machine		PB		FFIL	SY PINE	100
022-102689A	1E022	1	Rock drop out (west)		PB		CYC	SY PINE	100
022-102689A	1E022	2	Rock drop out (west)		PB		CYC	SY PINE	100
022-102689D	1M022	1	# 3 & 4 Bauer		PB		CYC	SY PINE	100
022-102689D	1M022	2	# 3 & 4 Bauer		PB		CYC	SY PINE	100
022-102689E	2M022	1	# 1 & 2 Bauer		PB		CYC	SY PINE	100
022-102689E	2M022	2	# 1 & 2 Bauer		PB		CYC	SY PINE	100
022-102789A	2E022	1	Rock drop out (east)		PB		CYC	SY PINE	100
022-102789A	2E022	2	Rock drop out (east)		PB		CYC	SY PINE	100
022-112790A	3M022	1	# 3 & 4 Bauer		PB		CYC	SY PINE	100
022-112790A	3M022	2	# 3 & 4 Bauer		PB		CYC	SY PINE	100
022-112790A	3M022	3	# 3 & 4 Bauer		PB		CYC	SY PINE	100
022-112790B	4M022	1	# 1 & 2 Bauer		PB		CYC	SY PINE	100
022-112790B	4M022	2	# 1 & 2 Bauer		PB		CYC	SY PINE	100
022-112790B	4M022	3	# 1 & 2 Bauer		PB		CYC	SY PINE	100
043-032492A	1I043	1	Boiler fuel bin cyclone	7.23 ODTH	PB		CYC	SY PINE	100
043-032492A	1I043	2	Boiler fuel bin cyclone	7.23 ODTH	PB		CYC	SY PINE	100
043-032492A	1I043	3	Boiler fuel bin cyclone	7.23 ODTH	PB		CYC	SY PINE	100
043-032592A	3I043	1	Hog fuel bin	.85 WET ton/hr	PB		FFIL	SY PINE	100
043-032592A	3I043	2	Hog fuel bin	.80 WET ton/hr	PB		FFIL	SY PINE	100
043-032592A	3I043	3	Hog fuel bin	.73 WET ton/hr	PB		FFIL	SY PINE	100
043-032592B	1M043	1	Pallman mills	10.6 ODTH	PB		CYC	SY PINE	100
043-032592B	1M043	2	Pallman mills	7.9 ODTH	PB		CYC	SY PINE	100
043-032592B	1M043	3	Pallman mills	9.4 ODTH	PB		CYC	SY PINE	100
043-032692A	1F043	1	Former classifier baghouse		PB	CYC	FFIL	SY PINE	100
043-032692A	1F043	2	Former classifier baghouse		PB	CYC	FFIL	SY PINE	100
043-032692A	1F043	3	Former classifier baghouse		PB	CYC	FFIL	SY PINE	100
043-040192A	1W043	1	Globe trim saw	21.4 MSF3/4 /hr	PB		CYC	SY PINE	100
043-040192A	1W043	2	Globe trim saw	20.7 MSF3/4 /hr	PB		CYC	SY PINE	100
043-040192A	1W043	3	Globe trim saw	28.9 MSF3/4 /hr	PB		CYC	SY PINE	100

PARTICLEBOARD - MISCELLANEOUS EQUIPMENT TABLE, page 1b

Inlet Moisture (%OD)	Outlet Moisture (%OD)	Inlet Temp. (F)	Outlet Temp. (F)	Pollutant 1	Pollutant 2	Pollutant 3	Comments
				PM			Forming Machines "Clean - Air Baghouse"
				PM			"Rock drop out" cyclone; coded as screening unit.
				PM			"Rock drop out" cyclone; coded as screening unit.
				PM			2 Bauer Mills for Core material to a single cyclone.
				PM			2 Bauer Mills for Core material to a single cyclone.
				PM			2 Bauer Mills for Face material to a single cyclone.
				PM			2 Bauer Mills for Face material to a single cyclone.
				PM			"Rock drop out" cyclone; coded as screening unit.
				PM			"Rock drop out" cyclone; coded as screening unit.
				PM			Same units as 1M022; new high efficiency cyclone.
				PM			Same units as 1M022; new high efficiency cyclone.
				PM			Same units as 1M022; new high efficiency cyclone.
				PM			Same units as 2M022; new high efficiency cyclone.
				PM			Same units as 2M022; new high efficiency cyclone.
				PM			Same units as 2M022; new high efficiency cyclone.
				PM			Boiler fuel bin cyclone processing sanderdust.
				PM			Boiler fuel bin cyclone processing sanderdust.
				PM			Boiler fuel bin cyclone processing sanderdust.
				PM			Fuel Bin receives hog fuel for dryer burners; baghouse.
				PM			Fuel Bin receives hog fuel for dryer burners; baghouse.
				PM			Fuel Bin receives hog fuel for dryer burners; baghouse.
				PM			Pallman Mills; unknown number; production provided for all p. mills.
				PM			Pallman Mills; unknown number; production provided for all p. mills.
				PM			Pallman Mills; unknown number; production provided for all p. mills.
				PM			This is a cyclone followed by a baghouse that receives a gas stream from a top & bottom Face Former air classification system.
				PM			This is a cyclone followed by a baghouse that receives a gas stream from a top & bottom Face Former air classification system.
				PM			This is a cyclone followed by a baghouse that receives a gas stream from a top & bottom Face Former air classification system.
				PM			This trim saw cuts 64" x 224" pressed panels to specified sizes prior to sanding.
				PM			This trim saw cuts 64" x 224" pressed panels to specified sizes prior to sanding.
				PM			This trim saw cuts 64" x 224" pressed panels to specified sizes prior to sanding.

PARTICLEBOARD - MISCELLANEOUS EQUIPMENT TABLE, page 2a

Test Code	Unit Code	Run	Description	Production Rate (Units)	Product	Initial PCD	Final PCD	Wood Species 1	% Species 1
043-040192B	3S043	1	Fine grit sander	16.5 MSF3/4 /hr	PB		FFIL	SY PINE	100
043-040192B	3S043	2	Fine grit sander	18.9 MSF3/4 /hr	PB		FFIL	SY PINE	100
043-040192B	3S043	3	Fine grit sander	28.0 MSF3/4 /hr	PB		FFIL	SY PINE	100
043-040193A	3M043	1	Bauer mills	15.0 ODTH	PB		CYC	SY PINE	100
043-040193A	3M043	2	Bauer mills	15.0 ODTH	PB		CYC	SY PINE	100
043-040193A	3M043	3	Bauer mills	15.0 ODTH	PB		CYC	SY PINE	100
043-040193B	4M043	1	Pallman mills	13.6 ODTH	PB		CYC	SY PINE	100
043-040193B	4M043	2	Pallman mills	13.6 ODTH	PB		CYC	SY PINE	100
043-040193B	4M043	3	Pallman mills	13.6 ODTH	PB		CYC	SY PINE	100
043-040992A	2M043	1	Bauer mills		PB		CYC	SY PINE	100
043-040992A	2M043	2	Bauer mills		PB		CYC	SY PINE	100
043-040992A	2M043	3	Bauer mills		PB		CYC	SY PINE	100
043-040992B	1Z043	1	Forming line reject system	32.3 ODTH	PB		FFIL	SY PINE	100
043-040992B	1Z043	2	Forming line reject system	32.3 ODTH	PB		FFIL	SY PINE	100
043-040992B	1Z043	3	Forming line reject system	30.8 ODTH	PB		FFIL	SY PINE	100
043-042392A	1S043	1	Sander baghouse	25.5 MSF3/4 /hr	PB		FFIL	SY PINE	100
043-042392A	1S043	2	Sander baghouse	24.6 MSF3/4 /hr	PB		FFIL	SY PINE	100
043-042392A	1S043	3	Sander baghouse	20.6 MSF3/4 /hr	PB		FFIL	SY PINE	100
043-042392B	2S043	1	Fine grit sander	25.5 MSF3/4 /hr	PB		FFIL	SY PINE	100
043-042392B	2S043	2	Fine grit sander	24.6 MSF3/4 /hr	PB		FFIL	SY PINE	100
043-042392B	2S043	3	Fine grit sander	20.6 MSF3/4 /hr	PB		FFIL	SY PINE	100

PARTICLEBOARD - MISCELLANEOUS EQUIPMENT TABLE, page 2b

Inlet Moisture (%OD)	Outlet Moisture (%OD)	Inlet Temp. (F)	Outlet Temp. (F)	Pollutant 1	Pollutant 2	Pollutant 3	Comments
				PM			This is a baghouse receiving sanderdust from top fine grit sander heads; lb/hr production is for the weight of panels sanded.
				PM			This is a baghouse receiving sanderdust from top fine grit sander heads; lb/hr production is for the weight of panels sanded.
				PM			This is a baghouse receiving sanderdust from top fine grit sander heads; lb/hr production is for the weight of panels sanded.
				PM			This unit was formerly coded as 2M043; new high efficiency cyclones were added.
				PM			This unit was formerly coded as 2M043; new high efficiency cyclones were added.
				PM			This unit was formerly coded as 2M043; new high efficiency cyclones were added.
				PM			This unit was formerly coded as 1M043; new high efficiency cyclones were added.
				PM			This unit was formerly coded as 1M043; new high efficiency cyclones were added.
				PM			This unit was formerly coded as 1M043; new high efficiency cyclones were added.
				PM			Bauer Mills; unknown number of mills; no production data.
				PM			Bauer Mills; unknown number of mills; no production data.
				PM			Bauer Mills; unknown number of mills; no production data.
				PM			This is a baghouse that receives pneumatically transferred material from the forming line saws (rejects).
				PM			This is a baghouse that receives pneumatically transferred material from the forming line saws (rejects).
				PM			This is a baghouse that receives pneumatically transferred material from the forming line saws (rejects).
				PM			Sander baghouse top & bottom coarse grit sander heads.
				PM			Sander baghouse top & bottom coarse grit sander heads.
				PM			Sander baghouse top & bottom coarse grit sander heads.
				PM			This is a baghouse receiving sanderdust from bottom fine grit sander heads; lb/hr production is for the weight of panels sanded.
				PM			This is a baghouse receiving sanderdust from bottom fine grit sander heads; lb/hr production is for the weight of panels sanded.
				PM			This is a baghouse receiving sanderdust from bottom fine grit sander heads; lb/hr production is for the weight of panels sanded.

PARTICLEBOARD - CARBON MONOXIDE TABLE, page 1a of 3(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
030-011993B	1D030	1	CO	M10	OUT	15.5		2.16	0.143
030-011993B	1D030	2	CO	M10	OUT	4.1		0.601	0.0407
030-011993B	1D030	3	CO	M10	OUT	3		0.443	0.028
030-012093B	2D030	1	CO	M10	OUT	29.6		4.09	0.453
030-012093B	2D030	2	CO	M10	OUT	20.7		3.09	0.508
030-012093B	2D030	3	CO	M10	OUT	7.7		1.03	0.138
039-102692A	1D039	1	CO	M10	OUT			0.93	0.0185
039-102692A	1D039	2	CO	M10	OUT			0.976	0.02
039-102692A	1D039	3	CO	M10	OUT			0.974	0.019
039-102692B	XD039	1	CO	M10	OUT			12.1	0.589
039-102692B	XD039	2	CO	M10	OUT			11.9	0.5959
039-102692B	XD039	3	CO	M10	OUT			14.7	0.7017
039-102692C	YD039	1	CO	M10	OUT			16.7	0.8666
039-102692C	YD039	2	CO	M10	OUT			16.6	0.8614
039-102692C	YD039	3	CO	M10	OUT			17.9	0.9289
039-102692D	5D039	1	CO	M10	OUT			7.8	0.7544
039-102692D	5D039	2	CO	M10	OUT			6.05	0.5851
039-102692D	5D039	3	CO	M10	OUT			8.77	0.8482
039-102692E	1P039	1	CO	M10	OUT			5.14	
039-102692E	1P039	2	CO	M10	OUT			3.27	
039-102692E	1P039	3	CO	M10	OUT			2.65	
045-041593A	1D045	1	CO	M10	OUT	377.2		57.8	3.91
045-041593A	1D045	2	CO	M10	OUT	122.9		17.3	0.99
045-041593B	2D045	1	CO	M10	OUT	94.5		12.46	0.6
045-041593B	2D045	2	CO	M10	OUT	73.2		9.19	0.36
156-032191A	XD156	1	CO	M10	OUT	191		7.45	0.266
156-032191A	XD156	2	CO	M10	OUT	234		8.03	0.276
156-032191A	XD156	3	CO	M10	OUT	188		5.3	0.189
156-062592A	XD156	1	CO	M10	OUT	97.5		5.63	0.168
156-062592A	XD156	2	CO	M10	OUT	119.4		6.6	0.196
156-062592A	XD156	3	CO	M10	OUT	175.7		8.64	0.257
166-092892A	3D166	1	CO	M10	OUT	77		11.31	
166-092892A	3D166	2	CO	M10	OUT	71		10.43	1.71
166-092892A	3D166	3	CO	M10	OUT	71		10.54	1.79
166-092992A	4D166	1	CO	M10	OUT	84		11.14	0.98
166-092992A	4D166	2	CO	M10	OUT	91		12.38	1.28
166-092992A	4D166	3	CO	M10	OUT	61		8.3	0.86
166-100192A	1D166	1	CO	M10	OUT	75		11.62	0.72
166-100192A	1D166	2	CO	M10	OUT	70		11.62	0.84
166-100192A	1D166	3	CO	M10	OUT	194		32.2	2.33
166-100192B	1D166	1	CO	M10	OUT	83		14.1	1.33
166-100192B	1D166	2	CO	M10	OUT	82		13.32	1.32
166-100192B	1D166	3	CO	M10	OUT	77		12.96	1.56

PARTICLEBOARD - CARBON MONOXIDE TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Comparison of CO available, pre and final dryers.
				Comparison of CO available, pre and final dryers.
				Comparison of CO available, pre and final dryers.
				Comparison of CO available, pre and final dryers.
				Comparison of CO available, pre and final dryers.
				Comparison of CO available, pre and final dryers.
				Comparison of CO available, pre and final dryers.
				Comparison of CO available, pre and final dryers.
				Comparison of CO available, pre and final dryers.
				Comparison of CO available, pre and final dryers.
		0.1558		
		0.0991		
		0.0803		
		0.39		Report provided pollutant emissions as lb/MSF 3/4.
		0.405		Report provided pollutant emissions as lb/MSF 3/4.
		0.277		Report provided pollutant emissions as lb/MSF 3/4.
		0.246		Report provided pollutant emissions as lb/MSF 3/4.
		0.288		Report provided pollutant emissions as lb/MSF 3/4.
		0.377		Report provided pollutant emissions as lb/MSF 3/4.

PARTICLEBOARD - CARBON MONOXIDE TABLE, page 2a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
166-100292A	5D166	1	CO	M10	OUT	46		3.17	0.41
166-100292A	5D166	2	CO	M10	OUT	47		3.35	0.3
166-100292A	5D166	3	CO	M10	OUT	54		3.92	0.39
166-100692A	2D166	1	CO	M10	OUT	43		2.83	0.33
166-100692A	2D166	2	CO	M10	OUT	56		3.84	0.43
166-100692B	2D166	1	CO	M10	OUT	56		3.7	0.42
166-100692B	2D166	2	CO	M10	OUT	56		3.58	0.34
166-100892A	1P166	1	CO	M10	OUT	1		0.4	
166-100892B	2P166	1	CO	M10	OUT	1		0.5	
167-091890A	4D167	1	CO	M10	OUT	77.3		11.4	1.01
167-091890A	4D167	2	CO	M10	OUT	68.1		10	0.88
167-091890A	4D167	3	CO	M10	OUT	55.5		8.5	0.75
167-091890A	4D167	4	CO	M10	OUT	46.9		7.1	0.65
167-091990A	4D167	1	CO	M10	OUT	42.1		6.5	0.63
167-091990A	4D167	2	CO	M10	OUT	42.1		6.8	0.84
167-100490A	5D167	1	CO	M10	OUT	70		9.1	0.65
167-100490A	5D167	2	CO	M10	OUT	65		8.2	0.58
167-100490A	5D167	3	CO	M10	OUT	58		7.7	0.63
167-100490A	5D167	4	CO	M10	OUT	112		12.4	0.82
167-102090A	4D167	1	CO	M10	OUT	99		13.77	1.17
167-102090A	4D167	2	CO	M10	OUT	73		10.48	0.864
167-102090A	4D167	3	CO	M10	OUT	117		17.85	1.528
167-102090B	4D167	1	CO	M10	OUT	119		17.21	1.506
167-102090B	4D167	2	CO	M10	OUT	72		10.53	0.951
167-102090B	4D167	3	CO	M10	OUT	12		1.75	0.164
167-102390A	5D167	1	CO	M10	OUT	40		5.4	0.48
167-102390A	5D167	2	CO	M10	OUT	45		6.1	0.53
167-102390A	5D167	3	CO	M10	OUT	40		5.6	0.5
167-102588A	3D167	1	CO	M10	OUT	629		90.5	8.68
167-102588A	3D167	2	CO	M10	OUT	882		125.2	12.26
182-090689A	1D182	1	CO	M3	OUT	499		59.2	3.04
182-090689A	1D182	2	CO	M3	OUT	506		58.1	2.98
182-090689A	1D182	3	CO	M3	OUT	743		69	3.54
182-090689B	1D182	1	CO	M3	IN	1042		122.3	6.27
182-090689B	1D182	2	CO	M3	IN	838		94.7	4.86
182-090689B	1D182	3	CO	M3	IN	950		105.4	5.4

PARTICLEBOARD - CARBON MONOXIDE TABLE, page 2b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
		0.057		Some of the runs were below detection limit.
		0.025		Some of the runs were below detection limit.
				Compare to test 167-102090B for sanderdust vs. natural gas.
				Compare to test 167-102090B for sanderdust vs. natural gas.
				Compare to test 167-102090B for sanderdust vs. natural gas.
				Compare to test 167-102090A for sanderdust vs. natural gas.
				Compare to test 167-102090A for sanderdust vs. natural gas.
				Compare to test 167-102090A for sanderdust vs. natural gas.
				CO obtained by Orsat, NOT REFERENCE METHOD, results included because values available throughout dryer system
				CO obtained by Orsat, NOT REFERENCE METHOD, results included because values available throughout dryer system
				CO obtained by Orsat, NOT REFERENCE METHOD, results included because values available throughout dryer system
				CO obtained by Orsat, NOT REFERENCE METHOD, results included because values available throughout dryer system
				CO obtained by Orsat, NOT REFERENCE METHOD, results included because values available throughout dryer system
				CO obtained by Orsat, NOT REFERENCE METHOD, results included because values available throughout dryer system

PARTICLEBOARD - CARBON MONOXIDE TABLE, page 3a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
182-090689C	1D182	1	CO	M3	IN	593		54.8	2.81
182-090689C	1D182	2	CO	M3	IN	712		65.4	3.35
182-090689C	1D182	3	CO	M3	IN	902		87.4	4.48
202-071393A	1D202	1	CO	M10	OUT	0		0	0
202-071393A	1D202	2	CO	M10	OUT	5		0.7	0.06
202-071393B	2D202	1	CO	M10	OUT	0		0	0
202-071393B	2D202	2	CO	M10	OUT	0		0	0
202-071592C	XD202	1	CO	M10	OUT	7		1.3	0.03
202-071592C	XD202	2	CO	M10	OUT	25		4.5	0.24
202-071592C	XD202	3	CO	M10	OUT	33		6.3	0.33
228-091592B	3D228	1	CO	M10	OUT	190		32.2	2.5
228-091592B	3D228	2	CO	M10	OUT	232		39.9	3.09
228-091592B	3D228	3	CO	M10	OUT	220		37.1	2.88
228-091692C	1D228	1	CO	M10	OUT	92		20	2.07
228-091692C	1D228	2	CO	M10	OUT	174		36.8	3.82
228-091692C	1D228	3	CO	M10	OUT	45.8		9.87	1.13

PARTICLEBOARD - CARBON MONOXIDE TABLE, page 3b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				CO obtained by Orsat, NOT REFERENCE METHOD, results included because values available throughout dryer system
				CO obtained by Orsat, NOT REFERENCE METHOD, results included because values available throughout dryer system
				CO obtained by Orsat, NOT REFERENCE METHOD, results included because values available throughout dryer system
				Value given as zero in test report.
				Value given as zero in test report.
				Value given as zero in test report.
				2 Dryers with common stack.
				2 Dryers with common stack.
				2 Dryers with common stack.

PARTICLEBOARD - CONDENSIBLE PARTICULATE MATTER (CMP) TABLE, page 1a of 3(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
030-011993C	1D030	1	CPM	M202	OUT				
030-011993C	1D030	2	CPM	M202	OUT			0.308	0.0177
030-011993C	1D030	3	CPM	M202	OUT			0.318	0.0194
030-012093C	2D030	1	CPM	M202	OUT			0.622	0.0581
030-012093C	2D030	2	CPM	M202	OUT			0.718	0.0665
030-012093C	2D030	3	CPM	M202	OUT			0.979	0.141
045-041593A	1D045	1	CPM	M202	OUT		0.0309	9.665	0.653
045-041593A	1D045	2	CPM	M202	OUT		0.0217	6.334	0.362
045-041593B	2D045	1	CPM	M202	OUT		0.028	7.98	0.383
045-041593B	2D045	2	CPM	M202	OUT		0.028	7.77	0.305
166-092892A	3D166	1	CPM	M5	OUT		0.009	2.58	
166-092892A	3D166	2	CPM	M5	OUT		0.01	3.01	0.493
166-092892A	3D166	3	CPM	M5	OUT		0.009	2.47	0.419
166-092992A	4D166	1	CPM	M5	OUT		0.008	2.15	0.185
166-092992A	4D166	2	CPM	M5	OUT		0.008	2.08	0.214
166-092992A	4D166	3	CPM	M5	OUT		0.011	2.98	0.307
166-100192A	1D166	1	CPM	M5	OUT		0.018	5.56	0.345
166-100192A	1D166	2	CPM	M5	OUT		0.016	5.33	0.383
166-100192A	1D166	3	CPM	M5	OUT		0.015	5.95	0.431
166-100192B	1D166	1	CPM	M5	OUT		0.014	4.64	0.438
166-100192B	1D166	2	CPM	M5	OUT		0.018	5.75	0.569
166-100192B	1D166	3	CPM	M5	OUT		0.014	4.69	0.565
166-100292A	5D166	1	CPM	M5	OUT		0.01	1.34	0.174
166-100292A	5D166	2	CPM	M5	OUT		0.009	1.26	0.114
166-100292A	5D166	3	CPM	M5	OUT		0.007	1.05	0.104
166-100692A	2D166	1	CPM	M5	OUT		0.006	0.73	0.086
166-100692A	2D166	2	CPM	M5	OUT		0.004	0.58	0.065
166-100692B	2D166	1	CPM	M5	OUT		0.01	1.36	0.153
166-100692B	2D166	2	CPM	M5	OUT		0.005	0.62	0.058
167-061988A	3D167	1	CPM	M5	OUT		0.009	1.24	0.122
167-061988B	3D167	1	CPM	M5	OUT		0.005	1.61	0.159
167-062288A	1D167	1	CPM	M5	OUT		0.002	0.41	0.038
167-062288A	1D167	2	CPM	M5	OUT		0.001	0.31	0.029
167-062288A	1D167	3	CPM	M5	OUT		0.001	0.08	0.008
167-062288B	2D167	1	CPM	M5	OUT		0.001	0.14	0.015
167-062288B	2D167	2	CPM	M5	OUT		0.001	0.26	0.028
167-062288B	2D167	3	CPM	M5	OUT		0.001	0.19	0.02
167-082189A	3D167	1	CPM	M5	OUT		0.002	0.6	0.067
167-082189A	3D167	2	CPM	M5	OUT		0.001	0.4	0.044
167-082189A	3D167	3	CPM	M5	OUT		0.001	0.3	0.033
167-082389A	1D167	1	CPM	M5	OUT		0.001	0.22	0.025
167-082389A	1D167	2	CPM	M5	OUT		0.001	0.14	0.016

PARTICLEBOARD - CONDENSIBLE PARTICULATE MATTER (CMP) TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Outlier; can be separated into Extractable and Non extractable fractions.
				Can be separated into Extractable and Non extractable fractions
				Can be separated into Extractable and Non extractable fractions
				Can be separated into Extractable and Non extractable fractions
				Can be separated into Extractable and Non extractable fractions
				Can be separated into Extractable and Non extractable fractions

PARTICLEBOARD - CONDENSIBLE PARTICULATE MATTER (CMP) TABLE, page 2a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
167-082389A	1D167	3	CPM	M5	OUT		0.001	0.24	0.027
167-082589A	2D167	1	CPM	M5	OUT		0.004	0.76	0.119
167-082589A	2D167	2	CPM	M5	OUT		0.004	0.9	0.141
167-091890A	4D167	1	CPM	M5	OUT		0.005	1.52	0.135
167-091890A	4D167	2	CPM	M5	OUT		0.006	1.68	0.147
167-091890A	4D167	3	CPM	M5	OUT		0.005	1.56	0.137
167-091890A	4D167	4	CPM	M5	OUT		0.004	1.32	0.12
167-091990A	4D167	1	CPM	M5	OUT		0.002	0.5	0.049
167-091990A	4D167	2	CPM	M5	OUT		0.001	0.35	0.043
167-100490A	5D167	1	CPM	M5	OUT		0.013	3.42	0.243
167-100490A	5D167	2	CPM	M5	OUT		0.018	4.5	0.319
167-100490A	5D167	3	CPM	M5	OUT		0.008	2.13	0.175
167-100490A	5D167	4	CPM	M5	OUT		0.023	4.93	0.324
167-100588A	3D167	1	CPM	M5	OUT		0.012	2.96	0.278
167-100588A	3D167	2	CPM	M5	OUT		0.007	1.87	0.203
167-100588A	3D167	3	CPM	M5	OUT		0.005	1.33	0.141
167-102090A	4D167	1	CPM	M5	OUT		0.005	1.28	0.109
167-102090A	4D167	2	CPM	M5	OUT		0.004	1.03	0.085
167-102090A	4D167	3	CPM	M5	OUT		0.003	1.05	0.09
167-102090B	4D167	1	CPM	M5	OUT		0.003	0.91	0.08
167-102090B	4D167	2	CPM	M5	OUT		0.002	0.72	0.065
167-102090B	4D167	3	CPM	M5	OUT		0.003	0.77	0.072
167-102390A	5D167	1	CPM	M5	OUT		0.003	0.77	0.068
167-102390A	5D167	2	CPM	M5	OUT		0.009	2.43	0.209
167-102390A	5D167	3	CPM	M5	OUT		0.011	3.05	0.275
167-102588A	3D167	1	CPM	M5	OUT		0.009	2.5	0.24
167-102588A	3D167	2	CPM	M5	OUT		0.022	6.2	0.607
182-090689A	1D182	1	CPM	OD7	OUT		0.004	0.93	0.047
182-090689A	1D182	2	CPM	OD7	OUT		0.006	1.35	0.069
182-090689A	1D182	3	CPM	OD7	OUT		0.003	0.55	0.028
182-090689B	1D182	1	CPM	OD7	IN		0.016	3.69	0.189
182-090689B	1D182	2	CPM	OD7	IN		0.017	3.78	0.194
182-090689B	1D182	3	CPM	OD7	IN		0.018	3.93	0.201
182-090689C	1D182	1	CPM	OD7	IN		0.036	6.53	0.335
182-090689C	1D182	2	CPM	OD7	IN		0.037	6.68	0.342
182-090689C	1D182	3	CPM	OD7	IN		0.05	9.53	0.489
182-090889A	2D182	1	CPM	OD7	OUT		0.012	0.339	0.017
182-090889A	2D182	2	CPM	OD7	OUT		0.009	0.252	0.013
182-090889A	2D182	3	CPM	OD7	OUT		0.011	0.309	0.016
182-100589A	1D182	1	CPM	OD7	OUT		0.005	1.13	0.058
182-100589A	1D182	2	CPM	OD7	OUT		0.002	0.468	0.024
182-100589A	1D182	3	CPM	OD7	OUT		0.003	0.692	0.035
182-100589B	1D182	1	CPM	OD7	IN		0.011	2.01	0.103

PARTICLEBOARD - CONDENSIBLE PARTICULATE MATTER (CMP) TABLE, page 2b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments

PARTICLEBOARD - CONDENSIBLE PARTICULATE MATTER (CMP) TABLE, page 3a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
182-100589B	1D182	2	CPM	OD7	IN		0.006	1.09	0.056
182-100589B	1D182	3	CPM	OD7	IN		0.007	1.31	0.067
202-081788A	XD202	1	CPM	OD7	OUT			1.59	0.07
202-081788A	XD202	2	CPM	OD7	OUT			1.74	0.077
202-081788A	XD202	3	CPM	OD7	OUT			1.05	0.046
228-091592A	3D228	1	CPM	M202	IN			21.96	1.67
228-091592A	3D228	2	CPM	M202	IN			24.1	1.93
228-091592A	3D228	3	CPM	M202	IN			20.1	1.69
228-091692A	1D228	1	CPM	M202	IN			4.55	0.472
228-091692A	1D228	2	CPM	M202	IN			5.09	0.528
228-091692A	1D228	3	CPM	M202	IN			8.55	0.982

PARTICLEBOARD - CONDENSIBLE PARTICULATE MATTER (CMP) TABLE, page 3b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				2 Dryers combined.
				2 Dryers combined.
				2 Dryers combined.
				CPM separated into extractable and non extractable fractions in report.
				CPM separated into extractable and non extractable fractions in report.
				CPM separated into extractable and non extractable fractions in report.
				CPM separated into extractable and non extractable fractions in report.
				CPM separated into extractable and non extractable fractions in report.
				CPM separated into extractable and non extractable fractions in report.

PARTICLEBOARD - FORMALDEHYDE TABLE, page 1a of 2(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
030-011993A	1D030	1	FOR	M0011	OUT	1.35		0.215	0.0157
030-011993A	1D030	2	FOR	M0011	OUT	1.82		0.272	0.0178
030-011993A	1D030	3	FOR	M0011	OUT	0.921		0.141	0.0121
030-012093A	2D030	1	FOR	M0011	OUT	2.44		0.352	0.0425
030-012093A	2D030	2	FOR	M0011	OUT	2.17		0.308	0.0382
030-012093A	2D030	3	FOR	M0011	OUT	1.73		0.276	0.111
030-012193A	1P030	1	FOR	M0011	OUT	12.55		6.85	
030-012193A	1P030	2	FOR	M0011	OUT	11.41		6.55	
030-012193A	1P030	3	FOR	M0011	OUT	12.38		7.22	
039-102692A	1D039	1	FOR	TO-5	OUT			0.011	0.0002
039-102692A	1D039	2	FOR	TO-5	OUT			0.012	0.0002
039-102692A	1D039	3	FOR	TO-5	OUT			0.006	0.0001
039-102692B	XD039	1	FOR	TO-5	OUT			0.022	0.0011
039-102692B	XD039	2	FOR	TO-5	OUT			0.027	0.0014
039-102692B	XD039	3	FOR	TO-5	OUT			0.025	0.0012
039-102692C	YD039	1	FOR	TO-5	OUT			0.018	0.0009
039-102692C	YD039	2	FOR	TO-5	OUT			0.017	0.0009
039-102692C	YD039	3	FOR	TO-5	OUT			0.016	0.0008
039-102692D	5D039	1	FOR	TO-5	OUT			0.009	0.0009
039-102692D	5D039	2	FOR	TO-5	OUT			0.014	0.0014
039-102692D	5D039	3	FOR	TO-5	OUT			0.012	0.0012
039-102692E	1P039	1	FOR	TO-5	OUT			2.74	
039-102692E	1P039	2	FOR	TO-5	OUT			1.13	
039-102692E	1P039	3	FOR	TO-5	OUT			1.66	
045-041593A	1D045	1	FOR	TO-5	OUT	2.48		0.4077	0.028
045-041593A	1D045	2	FOR	TO-5	OUT	2.41		0.3643	0.021
045-041593B	2D045	1	FOR	TO-5	OUT	2.45		0.3472	0.017
045-041593B	2D045	2	FOR	TO-5	OUT				
166-092892A	3D166	1	FOR	N3500	OUT	4.09		0.64	
166-092892A	3D166	2	FOR	N3500	OUT	3.88		0.61	0.1
166-092892A	3D166	3	FOR	N3500	OUT	2.78		0.44	0.075
166-092992A	4D166	1	FOR	N3500	OUT	3.25		0.46	0.04
166-092992A	4D166	2	FOR	N3500	OUT	2.76		0.4	0.041
166-092992A	4D166	3	FOR	N3500	OUT	2.43		0.35	0.036
166-100892A	1P166	1	FOR	N3500	OUT			1.67	
166-100892A	1P166	2	FOR	N3500	OUT			1.62	
166-100892A	1P166	3	FOR	N3500	OUT			2.81	
166-100892B	2P166	1	FOR	N3500	OUT			5.15	
166-100892B	2P166	2	FOR	N3500	OUT			5.95	
166-100892C	1C166	1	FOR	N3500	OUT			0.09	
166-100892C	1C166	2	FOR	N3500	OUT			0.08	
167-021892A	4D167	1	FOR	N3500	OUT	1.67		0.23	0.03
167-021892A	4D167	2	FOR	N3500	OUT	3.15		0.44	0.05

PARTICLEBOARD - FORMALDEHYDE TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
		0.388		
		0.623		
		0.455		
				Comparison of formaldehyde available; pre and final dryers.
				Comparison of formaldehyde available; pre and final dryers.
				Comparison of formaldehyde available; pre and final dryers.
				Comparison of formaldehyde available; pre and final dryers.
				Comparison of formaldehyde available; pre and final dryers.
				Comparison of formaldehyde available; pre and final dryers.
				Comparison of formaldehyde available; pre and final dryers.
				Comparison of formaldehyde available; pre and final dryers.
				Comparison of formaldehyde available; pre and final dryers.
				Comparison of formaldehyde available; pre and final dryers.
				Comparison of formaldehyde available; pre and final dryers.
		0.083		
		0.0342		
		0.0503		
				Sampling error run 2.
		0.217		Total press emissions.
		0.211		Total press emissions.
		0.411		Total press emissions.
		0.307		Total press emissions less board cooler.
		0.277		Total press emissions less board cooler.
		0.004		Total board cooler emissions.
		0.004		Total board cooler emissions.

PARTICLEBOARD - FORMALDEHYDE TABLE, page 2a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
167-021892A	4D167	3	FOR	N3500	OUT	1.55		0.22	0.03
167-021892A	4D167	4	FOR	N3500	OUT	0.74		0.11	0.01
167-021892A	4D167	5	FOR	N3500	OUT	3.9		0.54	0.06
167-021892A	4D167	6	FOR	N3500	OUT	7.85		1.09	0.11
167-021892A	4D167	7	FOR	N3500	OUT	2.58		0.39	0.05
167-021892A	4D167	8	FOR	N3500	OUT	2.34		0.35	0.05
167-082189A	3D167	1	FOR	N3500	OUT	1.9		0.3	0.033
167-082189A	3D167	2	FOR	N3500	OUT	1.2		0.2	0.022
167-082189A	3D167	3	FOR	N3500	OUT	1.3		0.2	0.022
167-102090A	4D167	1	FOR	N3500	OUT	3.2		0.48	0.041
167-102090A	4D167	2	FOR	N3500	OUT	1.5		0.23	0.019
167-102090A	4D167	3	FOR	N3500	OUT	2.9		0.45	0.039
167-102090B	4D167	1	FOR	N3500	OUT	5.6		0.87	0.076
167-102090B	4D167	2	FOR	N3500	OUT	9.3		1.46	0.132
167-102090B	4D167	3	FOR	N3500	OUT	1.4		0.22	0.021
167-102090D	1C167	1	FOR	N3500	OUT	1.25		0.021	
167-102190A	1Z167	1	FOR	N3500	OUT	2.1		0.0044	
167-102190B	1P167	1	FOR	N3500	OUT	1.5		0.177	
167-102390A	5D167	1	FOR	N3500	OUT	6.6		1	0.089
167-102390A	5D167	2	FOR	N3500	OUT	9.1		1.3	0.112
167-102390A	5D167	3	FOR	N3500	OUT	8.8		1.3	0.117
167-102588B	1P167	1	FOR	N3500	OUT	12		1.58	
167-102588B	1P167	2	FOR	N3500	OUT	11.5		1.56	
167-102588B	1P167	3	FOR	N3500	OUT	12.2		1.35	
167-102588C	1C167	1	FOR	N3500	OUT	8.37		0.43	
167-102588C	1C167	2	FOR	N3500	OUT	4.21		0.25	
167-102588C	1C167	3	FOR	N3500	OUT	7.9		0.65	
202-030194A	1P202	1	FOR	M0011	OUT	6.85		0.98	
202-030194B	2P202	1	FOR	M0011	OUT	5.88		1.58	
202-030194C	1C202	1	FOR	M0011	OUT	2.7		0.21	
202-030194D	2C202	1	FOR	M0011	OUT	1.7		0.15	
228-091692C	1D228	1	FOR	M0011	OUT	0.543		0.127	0.0132
228-091692C	1D228	2	FOR	M0011	OUT	1.36		0.308	0.032
228-091692C	1D228	3	FOR	M0011	OUT	0.421		0.097	0.0111
228-091692E	3D228	1	FOR	M0011	OUT	8.564		1.497	0.135
228-091692E	3D228	2	FOR	M0011	OUT	13.03		2.34	0.19
228-091692E	3D228	3	FOR	M0011	OUT	11.73		2.165	0.177
228-091992H	1P228	1	FOR	M0011	OUT	25.3		6.82	
228-091992H	1P228	2	FOR	M0011	OUT	18.5		4.76	
228-091992H	1P228	3	FOR	M0011	OUT	26.4		7.02	
228-092292A	1C228	1	FOR	M0011	OUT	6.19		0.842	
228-092292A	1C228	2	FOR	M0011	OUT	5.4		0.786	
228-092292A	1C228	3	FOR	M0011	OUT	3.96		0.617	

PARTICLEBOARD - FORMALDEHYDE TABLE, page 2b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
		0.0021		Average of 3 runs.
		0.0005		Average of 3 runs.
		0.018		Average of 3 runs.
		0.19		
		0.18		
		0.17		
		0.05		
		0.03		
		0.07		
		0.077		4 Press vents not tested simultaneously; cooler data available.
		0.109		4 Press vents not tested simultaneously; cooler data available.
		0.017		6 Cooler vents not tested simultaneously; Press data available.
		0.011		6 Cooler vents not tested simultaneously; Press data available.
		0.44		Press and cooler emissions are separate, not summed.
		0.248		Press and cooler emissions are separate, not summed.
		0.512		Press and cooler emissions are separate, not summed.
		0.0591		Press and cooler emissions are separate, not summed.
		0.055		Press and cooler emissions are separate, not summed.
		0.0481		Press and cooler emissions are separate, not summed.

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 1a of 13(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
030-011993A	1D030	1	2,5 DMBENZ	M0011	OUT	1.56E-03		1.11E-03	8.10E-05
030-011993A	1D030	2	2,5 DMBENZ	M0011	OUT	1.73E-04		1.16E-04	7.58E-06
030-011993A	1D030	3	2,5 DMBENZ	M0011	OUT	1.59E-04		1.09E-04	9.32E-06
030-011993A	1D030	1	ACETALD	M0011	OUT	1.44E-01		3.37E-02	2.46E-03
030-011993A	1D030	1	ACETONE	M0011	OUT	7.01E-01		2.16E-01	1.58E-02
030-011993A	1D030	2	ACETONE	M0011	OUT	5.26E-01		1.52E-01	9.94E-03
030-011993A	1D030	3	ACETONE	M0011	OUT	2.20E-01		6.50E-02	5.56E-03
030-011993A	1D030	1	ACROLEIN	M0011	OUT	1.05E-02		3.13E-03	2.28E-04
030-011993A	1D030	2	ACROLEIN	M0011	OUT	3.33E-02		9.28E-03	6.07E-04
030-011993A	1D030	3	ACROLEIN	M0011	OUT	1.65E-02		4.74E-03	4.05E-04
030-011993A	1D030	1	BENZALD	M0011	OUT	2.68E-02		1.51E-02	1.10E-03
030-011993A	1D030	2	BENZALD	M0011	OUT	2.28E-02		1.20E-02	7.84E-04
030-011993A	1D030	3	BENZALD	M0011	OUT	1.60E-02		8.67E-03	7.41E-04
030-011993A	1D030	1	BUTYLALDEH	M0011	OUT	1.64E-02		6.27E-03	4.58E-04
030-011993A	1D030	2	BUTYLALDEH	M0011	OUT	3.47E-02		1.24E-02	8.10E-04
030-011993A	1D030	3	BUTYLALDEH	M0011	OUT	2.32E-02		8.55E-03	7.31E-04
030-011993A	1D030	1	HEXALD	M0011	OUT	2.89E-02		1.54E-02	1.12E-03
030-011993A	1D030	1	ISOVALALD	M0011	OUT	1.40E-02		6.41E-03	4.68E-04
030-011993A	1D030	2	ISOVALALD	M0011	OUT	5.18E-03		2.22E-03	1.45E-04
030-011993A	1D030	3	ISOVALALD	M0011	OUT	2.63E-03		1.16E-03	9.91E-05
030-011993A	1D030	1	M-TOLALD	M0011	OUT	5.41E-03		3.46E-03	2.53E-04
030-011993A	1D030	1	MEK	M0011	OUT	2.11E-02		8.08E-03	5.90E-04
030-011993A	1D030	2	MEK	M0011	OUT	3.78E-02		1.35E-02	9.85E-04
030-011993A	1D030	3	MEK	M0011	OUT	1.16E-02		4.28E-03	3.12E-04
030-011993A	1D030	1	VALALD	M0011	OUT	3.96E-02		1.81E-03	1.32E-04
030-011993A	1D030	2	VALALD	M0011	OUT	4.97E-02		2.13E-02	1.39E-03
030-011993A	1D030	3	VALALD	M0011	OUT	3.18E-02		4.00E-02	3.40E-03
030-011993E	1D030	1	124TMBENZ	M0010	OUT	1.47E-03		8.76E-04	8.80E-05
030-011993E	1D030	2	124TMBENZ	M0010	OUT	1.63E-03		8.54E-04	5.51E-05
030-011993E	1D030	3	124TMBENZ	M0010	OUT	1.34E-03		7.71E-04	5.01E-05
030-011993E	1D030	1	A-PINENE	M0010	OUT	3.05E-01		2.06E-01	2.07E-02
030-011993E	1D030	2	A-PINENE	M0010	OUT	2.56E-01		1.52E-01	9.81E-03
030-011993E	1D030	3	A-PINENE	M0010	OUT	4.59E-01		3.00E-01	1.95E-02
030-011993E	1D030	1	A-TERPINE	M0010	OUT	5.82E-01		4.46E-01	4.48E-02
030-011993E	1D030	2	A-TERPINE	M0010	OUT	5.43E-01		3.66E-01	2.36E-02
030-011993E	1D030	3	A-TERPINE	M0010	OUT	5.65E-01		4.19E-01	2.72E-02
030-011993E	1D030	1	ACETPH	M0010	OUT	8.00E-04		4.77E-04	4.79E-05
030-011993E	1D030	2	ACETPH	M0010	OUT	6.10E-04		3.20E-04	2.06E-05
030-011993E	1D030	3	ACETPH	M0010	OUT	6.32E-04		3.65E-04	2.37E-05
030-011993E	1D030	1	B-PINENE	M0010	OUT	1.79E-01		1.21E-01	1.21E-02
030-011993E	1D030	2	B-PINENE	M0010	OUT	1.60E-01		9.48E-02	6.11E-03
030-011993E	1D030	3	B-PINENE	M0010	OUT	2.76E-01		1.81E-01	1.18E-02
030-011993E	1D030	1	BIPHENYL	M0010	OUT	3.12E-04		2.39E-04	2.40E-05

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Above calibration range by <25%.
				Above calibration range by <25%.
				Estimated; below calibration, above detection
				Above calibration range
				Above calibration range
				Estimated; below calibration, above detection
				Estimated; below calibration, above detection
				Estimated; value exceeded calibration range.
				Estimated; value exceeded calibration range.
				Estimated; value exceeded calibration range.
				Estimated; value exceeded calibration range.
				Estimated; value exceeded calibration range.
				Estimated; value exceeded calibration range.
				Estimated; value exceeded calibration range.
				Estimated; value exceeded calibration range.
				Estimated; value exceeded calibration range.

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 2a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
030-011993E	1D030	2	BIPHENYL	M0010	OUT	2.39E-04		1.61E-04	1.04E-05
030-011993E	1D030	3	BIPHENYL	M0010	OUT	2.56E-04		1.89E-04	1.23E-05
030-011993E	1D030	1	BIS-2EH-PH	M0010	OUT	3.81E-04		7.38E-04	7.41E-05
030-011993E	1D030	2	BIS-2EH-PH	M0010	OUT	5.45E-04		9.30E-04	6.04E-05
030-011993E	1D030	3	BIS-2EH-PH	M0010	OUT	4.81E-04		9.03E-04	5.86E-05
030-011993E	1D030	1	BUTBENPHT	M0010	OUT	1.33E-04		2.07E-04	2.08E-05
030-011993E	1D030	2	BUTBENPHT	M0010	OUT	7.30E-04		1.00E-04	6.45E-06
030-011993E	1D030	1	CUMENE	M0010	OUT	6.62E-04		3.95E-04	3.97E-05
030-011993E	1D030	2	CUMENE	M0010	OUT	5.59E-04		2.93E-04	1.89E-05
030-011993E	1D030	3	CUMENE	M0010	OUT	1.36E-03		7.85E-04	5.10E-05
030-011993E	1D030	1	D-N-BUT-PH	M0010	OUT	1.25E-04		1.73E-04	1.74E-05
030-011993E	1D030	2	D-N-BUT-PH	M0010	OUT	1.55E-04		1.88E-04	1.21E-05
030-011993E	1D030	3	D-N-BUT-PH	M0010	OUT	1.32E-04		1.77E-04	1.15E-05
030-011993E	1D030	1	HYDROQUIN	M0010	OUT	1.52E-03		8.31E-04	8.34E-05
030-011993E	1D030	2	HYDROQUIN	M0010	OUT	1.16E-03		5.57E-04	3.59E-05
030-011993E	1D030	1	NITROBENZ	M0010	OUT	2.84E-04		1.73E-04	1.74E-05
030-011993E	1D030	1	P-CYMEME	M0010	OUT	2.15E-02		1.40E-02	1.41E-03
030-011993E	1D030	2	P-CYMEME	M0010	OUT	1.58E-02		9.22E-03	5.95E-04
030-011993E	1D030	3	P-CYMEME	M0010	OUT	2.87E-02		1.85E-02	1.20E-03
030-011993F	1D030	1	111-T-CH-E	M0030	OUT	1.90E-04		1.26E-04	8.24E-06
030-011993F	1D030	2	111-T-CH-E	M0030	OUT	1.62E-04		9.50E-05	5.83E-06
030-011993F	1D030	3	111-T-CH-E	M0030	OUT	2.05E-04		1.31E-04	8.51E-06
030-011993F	1D030	1	4-M-2-PENT	M0030	OUT	9.75E-04		4.85E-04	3.17E-05
030-011993F	1D030	2	4-M-2-PENT	M0030	OUT	1.20E-03		5.23E-04	3.21E-05
030-011993F	1D030	3	4-M-2-PENT	M0030	OUT	1.13E-03		5.41E-04	3.51E-05
030-011993F	1D030	1	A-PINENE	M0030	OUT	1.71E+00		1.16E+00	7.58E-02
030-011993F	1D030	2	A-PINENE	M0030	OUT	1.70E+00		1.01E+00	6.20E-02
030-011993F	1D030	3	A-PINENE	M0030	OUT	2.71E+00		1.77E+00	1.15E-01
030-011993F	1D030	1	ACETONE	M0030	OUT	3.30E-02		8.19E-03	5.35E-04
030-011993F	1D030	2	ACETONE	M0030	OUT	2.59E-01		5.67E-02	3.48E-03
030-011993F	1D030	3	ACETONE	M0030	OUT	8.70E-02		2.11E-02	1.37E-03
030-011993F	1D030	1	ACROLEIN	M0030	OUT	1.77E-02		4.92E-03	3.22E-04
030-011993F	1D030	2	ACROLEIN	M0030	OUT	2.00E-01		4.90E-02	3.01E-03
030-011993F	1D030	3	ACROLEIN	M0030	OUT	1.01E-01		2.71E-02	1.76E-03
030-011993F	1D030	1	ACRYLNIT	M0030	OUT	4.67E-04		1.23E-04	8.04E-06

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 2b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Compounds not listed in SW-846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW-846 Methods 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW-846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW-846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW-846 Methods 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW-846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW-846 Method 5041; considered semiquantitative due to lack of acceptance criteria.

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 3a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
030-011993F	1D030	2	ACRYLNIT	M0030	OUT	4.39E-03		1.02E-03	6.26E-05
030-011993F	1D030	3	ACRYLNIT	M0030	OUT	3.47E-03		8.85E-04	5.75E-05
030-011993F	1D030	1	B-PINENE	M0030	OUT	3.32E-01		2.25E-01	1.47E-02
030-011993F	1D030	2	B-PINENE	M0030	OUT	4.76E-01		4.44E-01	1.74E-02
030-011993F	1D030	3	B-PINENE	M0030	OUT	6.79E-01		4.44E-01	2.88E-02
030-011993F	1D030	1	BENZENE	M0030	OUT	2.41E-03		9.33E-04	6.10E-05
030-011993F	1D030	2	BENZENE	M0030	OUT	5.10E-03		1.74E-03	1.07E-04
030-011993F	1D030	3	BENZENE	M0030	OUT	7.04E-03		2.64E-03	1.71E-04
030-011993F	1D030	1	BROMOMET	M0030	OUT	3.00E-04		1.24E-04	8.10E-06
030-011993F	1D030	2	BROMOMET	M0030	OUT	3.00E-04		1.24E-04	7.61E-06
030-011993F	1D030	3	BROMOMET	M0030	OUT	4.22E-04		1.92E-04	1.25E-05
030-011993F	1D030	1	CARBDIS	M0030	OUT	9.30E-04		3.51E-04	2.29E-05
030-011993F	1D030	2	CARBDIS	M0030	OUT	2.24E-04		7.50E-05	4.60E-06
030-011993F	1D030	3	CARBDIS	M0030	OUT	3.02E-04		1.10E-04	7.14E-06
030-011993F	1D030	1	CARBTETCHL	M0030	OUT	1.41E-04		1.08E-04	7.06E-06
030-011993F	1D030	2	CARBTETCHL	M0030	OUT	1.69E-04		1.13E-04	6.50E-06
030-011993F	1D030	3	CARBTETCHL	M0030	OUT	2.03E-04		1.50E-04	9.74E-06
030-011993F	1D030	1	CHLOROMET	M0030	OUT	2.53E-03		6.34E-04	4.14E-05
030-011993F	1D030	2	CHLOROMET	M0030	OUT	2.55E-03		5.61E-04	3.40E-05
030-011993F	1D030	3	CHLOROMET	M0030	OUT	3.70E-03		8.97E-04	5.82E-05
030-011993F	1D030	1	ETYLBENZ	M0030	OUT	1.04E-04		5.50E-05	3.59E-06
030-011993F	1D030	3	ETYLBENZ	M0030	OUT	1.19E-04		6.10E-05	3.96E-06
030-011993F	1D030	1	M,P XYLENE	M0030	OUT	1.31E-03		6.92E-04	4.52E-05
030-011993F	1D030	2	M,P XYLENE	M0030	OUT	3.72E-03		1.72E-03	1.06E-04
030-011993F	1D030	3	M,P XYLENE	M0030	OUT	2.63E-03		1.34E-03	8.70E-05
030-011993F	1D030	1	MEK	M0030	OUT	1.60E-03		5.75E-04	3.76E-05
030-011993F	1D030	2	MEK	M0030	OUT	2.14E-02		6.74E-03	4.13E-04
030-011993F	1D030	3	MEK	M0030	OUT	2.69E-03		9.31E-04	6.05E-05
030-011993F	1D030	1	METHENECH	M0030	OUT	3.93E-02		1.65E-02	1.08E-03
030-011993F	1D030	2	METHENECH	M0030	OUT	2.23E-02		8.26E-03	5.47E-04
030-011993F	1D030	3	METHENECH	M0030	OUT	1.90E-02		7.74E-03	5.03E-04
030-011993F	1D030	1	O-XYLENE	M0030	OUT	1.44E-04		7.60E-05	4.97E-06
030-011993F	1D030	2	O-XYLENE	M0030	OUT	2.30E-04		1.06E-04	6.50E-06
030-011993F	1D030	3	O-XYLENE	M0030	OUT	1.88E-04		9.60E-05	6.23E-06
030-011993F	1D030	1	P-CYMEME	M0030	OUT	3.19E-02		2.12E-02	1.39E-03
030-011993F	1D030	2	P-CYMEME	M0030	OUT	5.62E-02		3.29E-02	2.02E-03

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 3b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Compounds not listed in SW-846 Methods 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW-846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW-846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW-846 Methods 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW-846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW-846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW-846 Methods 5041; considered semiquantitative due to lack of acceptance criteria.

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 4a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
030-011993F	1D030	3	P-CYMEME	M0030	OUT	5.70E-02		3.70E-02	2.40E-03
030-011993F	1D030	1	TOLUENE	M0030	OUT	1.10E-02		5.02E-03	3.28E-04
030-011993F	1D030	2	TOLUENE	M0030	OUT	1.09E-02		4.38E-03	2.69E-04
030-011993F	1D030	3	TOLUENE	M0030	OUT	1.12E-02		4.97E-03	3.23E-04
030-012093A	2D030	1	ACETALD	M0011	OUT	1.18E-01		2.51E-02	3.03E-03
030-012093A	2D030	2	ACETALD	M0011	OUT	1.52E-01		3.17E-02	3.93E-03
030-012093A	2D030	3	ACETALD	M0011	OUT	2.33E-01		5.46E-02	2.19E-02
030-012093A	2D030	2	ACETONE	M0011	OUT	1.02E+00		2.78E-01	3.44E-02
030-012093A	2D030	1	ACROLEIN	M0011	OUT	1.80E-02		4.87E-03	5.88E-04
030-012093A	2D030	2	ACROLEIN	M0011	OUT	6.61E-02		1.76E-02	2.18E-03
030-012093A	2D030	3	ACROLEIN	M0011	OUT	4.40E-02		1.31E-02	5.26E-03
030-012093A	2D030	1	BENZALD	M0011	OUT	6.00E-02		3.06E-02	3.70E-03
030-012093A	2D030	2	BENZALD	M0011	OUT	5.78E-02		2.90E-02	3.59E-03
030-012093A	2D030	3	BENZALD	M0011	OUT	2.65E-02		1.49E-02	5.98E-03
030-012093A	2D030	1	BUTYLALDEH	M0011	OUT	8.42E-02		2.92E-02	3.53E-03
030-012093A	2D030	2	BUTYLALDEH	M0011	OUT	8.49E-02		2.90E-02	3.59E-03
030-012093A	2D030	3	BUTYLALDEH	M0011	OUT	5.98E-02		2.29E-02	9.20E-03
030-012093A	2D030	1	HEXALD	M0011	OUT	1.09E-01		5.25E-02	6.34E-03
030-012093A	2D030	2	HEXALD	M0011	OUT	1.28E-01		6.07E-02	7.52E-03
030-012093A	2D030	3	HEXALD	M0011	OUT	1.55E-01		8.23E-02	3.31E-02
030-012093A	2D030	1	ISOVALALD	M0011	OUT	1.97E-02		8.14E-03	9.83E-04
030-012093A	2D030	2	ISOVALALD	M0011	OUT	9.72E-03		3.96E-03	4.91E-04
030-012093A	2D030	3	ISOVALALD	M0011	OUT	5.01E-03		2.29E-03	9.20E-04
030-012093A	2D030	1	M-TOLALD	M0011	OUT	7.08E-03		4.09E-03	4.94E-04
030-012093A	2D030	3	M-TOLALD	M0011	OUT	1.56E-03		9.96E-04	4.00E-04
030-012093A	2D030	1	VALALD	M0011	OUT	8.27E-02		3.42E-02	4.13E-03
030-012093A	2D030	2	VALALD	M0011	OUT	7.12E-02		2.90E-02	3.59E-03
030-012093A	2D030	3	VALALD	M0011	OUT	7.94E-02		3.63E-02	1.46E-02
030-012093E	2D030	1	124TMBENZ	M0010	OUT	1.96E-03		1.14E-03	1.15E-04
030-012093E	2D030	2	124TMBENZ	M0010	OUT	1.68E-03		9.92E-04	1.07E-04
030-012093E	2D030	3	124TMBENZ	M0010	OUT	1.56E-03		8.96E-04	1.22E-04
030-012093E	2D030	1	44METDIAN	M0010	OUT	3.42E-03		3.27E-04	3.30E-05
030-012093E	2D030	1	A-PINENE	M0010	OUT	9.15E-01		6.01E-01	6.54E-02
030-012093E	2D030	2	A-PINENE	M0010	OUT	9.90E-01		6.65E-01	7.19E-02
030-012093E	2D030	3	A-PINENE	M0010	OUT	1.04E+00		6.74E-01	9.20E-02
030-012093E	2D030	1	A-TERPINE	M0010	OUT	1.16E+00		8.59E-01	9.35E-02
030-012093E	2D030	2	A-TERPINE	M0010	OUT	1.00E+00		7.62E-01	8.24E-02
030-012093E	2D030	3	A-TERPINE	M0010	OUT	1.23E+00		9.06E-01	1.24E-01
030-012093E	2D030	2	ACETPH	M0010	OUT	1.33E-03		7.87E-04	8.51E-05
030-012093E	2D030	3	ACETPH	M0010	OUT	1.41E-03		8.10E-04	1.11E-04
030-012093E	2D030	1	B-PINENE	M0010	OUT	5.13E-01		3.37E-01	3.67E-02
030-012093E	2D030	2	B-PINENE	M0010	OUT	5.73E-01		3.84E-01	4.15E-02

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 4b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Compounds not listed in SW-846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Estimated; below calibration, above detection.
				Estimated; below calibration, above detection.
				Estimated; below calibration, above detection.
				Estimated; below calibration, above detection.
				Estimated; below calibration, above detection.
				Estimated; below calibration, above detection.
				Estimated; value exceeded calibration range.
				Estimated; value exceeded calibration range.
				Estimated; value exceeded calibration range.
				Estimated; value exceeded calibration range.
				Estimated; value exceeded calibration range.
				Estimated; value exceeded calibration range.
				Estimated; value exceeded calibration range.
				Estimated; value exceeded calibration range.

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 5a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
030-012093E	2D030	3	B-PINENE	M0010	OUT	5.76E-01		3.76E-01	5.13E-02
030-012093E	2D030	1	BIPHENYL	M0010	OUT	6.84E-04		5.08E-04	5.13E-05
030-012093E	2D030	2	BIPHENYL	M0010	OUT	8.13E-04		6.18E-04	6.68E-05
030-012093E	2D030	3	BIPHENYL	M0010	OUT	6.59E-04		4.85E-04	6.62E-05
030-012093E	2D030	1	BIS-2EH-PH	M0010	OUT	4.47E-03		8.41E-03	8.49E-04
030-012093E	2D030	2	BIS-2EH-PH	M0010	OUT	1.66E-03		3.19E-03	3.45E-04
030-012093E	2D030	3	BIS-2EH-PH	M0010	OUT	2.19E-03		4.08E-03	5.57E-04
030-012093E	2D030	1	CUMENE	M0010	OUT	1.45E-03		9.10E-05	8.45E-05
030-012093E	2D030	2	CUMENE	M0010	OUT	1.55E-03		9.19E-04	9.94E-05
030-012093E	2D030	3	CUMENE	M0010	OUT	1.55E-03		8.86E-04	1.21E-04
030-012093E	2D030	1	D-N-BUT-PH	M0010	OUT	2.10E-04		2.82E-04	2.85E-05
030-012093E	2D030	2	D-N-BUT-PH	M0010	OUT	2.39E-04		3.28E-04	3.55E-05
030-012093E	2D030	3	D-N-BUT-PH	M0010	OUT	1.98E-04		2.63E-04	3.59E-05
030-012093E	2D030	1	P-CYMEME	M0010	OUT	1.17E-01		7.58E-02	8.25E-03
030-012093E	2D030	2	P-CYMEME	M0010	OUT	1.33E-01		8.79E-02	9.50E-03
030-012093E	2D030	3	P-CYMEME	M0010	OUT	9.17E-02		5.87E-02	8.01E-03
030-012093F	2D030	1	111-T-CH-E	M0030	OUT	2.26E-04		1.45E-04	1.67E-05
030-012093F	2D030	2	111-T-CH-E	M0030	OUT	2.44E-04		1.60E-04	1.60E-05
030-012093F	2D030	3	111-T-CH-E	M0030	OUT	1.91E-04		1.22E-04	1.48E-05
030-012093F	2D030	1	4-M-2-PENT	M0030	OUT	1.53E-03		7.38E-04	8.51E-05
030-012093F	2D030	2	4-M-2-PENT	M0030	OUT	2.82E-03		1.39E-03	1.39E-04
030-012093F	2D030	3	4-M-2-PENT	M0030	OUT	2.79E-03		1.33E-03	1.62E-04
030-012093F	2D030	1	A-PINENE	M0030	OUT	2.58E+01		1.70E+01	1.96E+00
030-012093F	2D030	2	A-PINENE	M0030	OUT	1.02E+01		6.83E+00	6.83E-01
030-012093F	2D030	3	A-PINENE	M0030	OUT	3.00E+01		1.95E+01	2.37E+00
030-012093F	2D030	1	ACETONE	M0030	OUT	8.85E-02		2.14E-02	2.47E-03
030-012093F	2D030	2	ACETONE	M0030	OUT	4.53E-01		1.12E-01	1.12E-02
030-012093F	2D030	3	ACETONE	M0030	OUT	7.15E-01		1.71E-01	2.08E-02
030-012093F	2D030	1	ACROLEIN	M0030	OUT	1.18E-01		3.20E-02	3.69E-03
030-012093F	2D030	2	ACROLEIN	M0030	OUT	6.47E-01		1.79E-01	1.79E-02
030-012093F	2D030	3	ACROLEIN	M0030	OUT	1.04E-01		2.77E-02	3.37E-03
030-012093F	2D030	1	ACRYLNIT	M0030	OUT	4.07E-03		1.04E-03	1.20E-04
030-012093F	2D030	2	ACRYLNIT	M0030	OUT	3.62E-03		9.44E-04	9.44E-05

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 5b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Estimated; value exceeded calibration range.
				Estimated; value exceeded calibration range.
				Estimated; value exceeded calibration range.
				Estimated; value exceeded calibration range.
				Compounds not listed in SW-846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW 846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW 846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW 846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW-846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW 846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW 846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW-846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW 846 Method 5041; considered semiquantitative due to lack of acceptance criteria.

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 6a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
030-012093F	2D030	3	ACRYLNIT	M0030	OUT	6.14E-03		1.55E-03	1.89E-04
030-012093F	2D030	1	B-PINENE	M0030	OUT	1.19E+01		7.86E+00	9.07E-01
030-012093F	2D030	2	B-PINENE	M0030	OUT	4.46E+00		2.99E+00	2.99E-01
030-012093F	2D030	3	B-PINENE	M0030	OUT	6.97E+00		4.53E+00	5.51E-01
030-012093F	2D030	1	BENZENE	M0030	OUT	9.43E-03		3.55E-03	4.09E-04
030-012093F	2D030	2	BENZENE	M0030	OUT	9.69E-03		3.72E-03	3.72E-04
030-012093F	2D030	3	BENZENE	M0030	OUT	4.88E-03		1.82E-03	2.21E-04
030-012093F	2D030	1	BROMOMET	M0030	OUT	6.98E-04		3.19E-04	3.68E-05
030-012093F	2D030	2	BROMOMET	M0030	OUT	1.03E-03		4.84E-04	4.84E-05
030-012093F	2D030	3	BROMOMET	M0030	OUT	9.56E-04		4.33E-04	5.27E-05
030-012093F	2D030	1	CARBDIS	M0030	OUT	5.01E-04		1.84E-04	2.12E-05
030-012093F	2D030	2	CARBDIS	M0030	OUT	7.12E-04		2.67E-04	2.67E-05
030-012093F	2D030	1	CARBTETCHL	M0030	OUT	1.36E-04		1.01E-04	1.16E-05
030-012093F	2D030	2	CARBTETCHL	M0030	OUT	3.53E-04		2.68E-04	2.68E-05
030-012093F	2D030	3	CARBTETCHL	M0030	OUT	1.04E-04		7.60E-05	9.25E-06
030-012093F	2D030	1	CHLOROMET	M0030	OUT	6.79E-03		1.65E-03	1.90E-04
030-012093F	2D030	2	CHLOROMET	M0030	OUT	6.87E-03		1.71E-03	1.71E-04
030-012093F	2D030	3	CHLOROMET	M0030	OUT	6.61E-03		1.59E-03	1.93E-04
030-012093F	2D030	1	DBM	M0030	OUT	1.86E-04		1.56E-04	1.80E-05
030-012093F	2D030	2	DBM	M0030	OUT	2.35E-04		1.16E-04	1.16E-05
030-012093F	2D030	3	DMS	M0030	OUT	2.36E-04		1.06E-04	1.29E-05
030-012093F	2D030	1	M,P XYLENE	M0030	OUT	2.59E-03		1.33E-03	1.53E-04
030-012093F	2D030	2	M,P XYLENE	M0030	OUT	3.23E-03		1.69E-03	1.69E-04
030-012093F	2D030	3	M,P XYLENE	M0030	OUT	2.08E-03		1.06E-03	1.29E-04
030-012093F	2D030	1	MEK	M0030	OUT	2.93E-03		1.02E-03	1.18E-04
030-012093F	2D030	2	MEK	M0030	OUT	4.21E-03		1.50E-03	1.50E-04
030-012093F	2D030	3	MEK	M0030	OUT	2.16E-01		7.44E-02	9.07E-03
030-012093F	2D030	1	METHENECH	M0030	OUT	1.89E-02		7.75E-03	8.94E-04
030-012093F	2D030	2	METHENECH	M0030	OUT				
030-012093F	2D030	3	METHENECH	M0030	OUT	6.20E-03		2.51E-03	3.06E-04
030-012093F	2D030	1	N-HEXANE	M0030	OUT	6.77E-04		2.81E-04	3.24E-05
030-012093F	2D030	2	N-HEXANE	M0030	OUT	4.53E-04		2.99E-04	2.99E-05
030-012093F	2D030	3	N-HEXANE	M0030	OUT	3.20E-04		1.33E-04	1.62E-05
030-012093F	2D030	1	O-XYLENE	M0030	OUT	4.66E-04		2.38E-04	2.75E-05
030-012093F	2D030	2	O-XYLENE	M0030	OUT	3.53E-04		1.84E-04	1.84E-05
030-012093F	2D030	3	O-XYLENE	M0030	OUT	3.64E-04		1.84E-04	2.24E-05
030-012093F	2D030	1	P-CYMEME	M0030	OUT	2.86E-02		1.85E-02	2.13E-03

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 6b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Compounds not listed in SW 846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW-846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW 846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW 846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW-846 Method 5041; considered semiquantitative due to lack of acceptance criteria.

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 7a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
030-012093F	2D030	2	P-CYMEME	M0030	OUT	1.66E-01		1.10E-01	1.10E-02
030-012093F	2D030	3	P-CYMEME	M0030	OUT	3.37E-01		2.16E-01	2.63E-02
030-012093F	2D030	1	STYRENE	M0030	OUT	3.31E-03		1.66E-03	1.91E-04
030-012093F	2D030	2	STYRENE	M0030	OUT	1.70E-03		8.74E-04	8.74E-05
030-012093F	2D030	3	STYRENE	M0030	OUT	1.14E-03		5.64E-04	6.86E-05
030-012093F	2D030	1	T1,4 DCBUT	M0030	OUT	3.46E-04		2.09E-04	2.41E-05
030-012093F	2D030	1	TOLUENE	M0030	OUT	3.09E-02		1.37E-02	1.58E-03
030-012093F	2D030	2	TOLUENE	M0030	OUT	6.87E-02		3.12E-02	3.12E-03
030-012093F	2D030	3	TOLUENE	M0030	OUT	8.38E-02		3.68E-02	4.48E-03
030-012093F	2D030	2	VINYLACET	M0030	OUT	6.91E-04		2.93E-04	2.93E-05
030-012193A	1P030	2	2,5 DMBENZ	M0011	OUT	6.37E-02		3.48E-03	
030-012193A	1P030	3	2,5 DMBENZ	M0011	OUT	1.89E-03		4.89E-03	
030-012193A	1P030	1	ACETALD	M0011	OUT	3.81E-01		3.01E-01	
030-012193A	1P030	2	ACETALD	M0011	OUT	8.96E-01		7.72E-01	
030-012193A	1P030	3	ACETALD	M0011	OUT	1.99E-01		1.70E-01	
030-012193A	1P030	1	ACETONE	M0011	OUT	2.26E-01		2.37E-01	
030-012193A	1P030	2	ACETONE	M0011	OUT	2.22E-01		2.46E-01	
030-012193A	1P030	3	ACETONE	M0011	OUT	2.09E-01		2.21E-01	
030-012193A	1P030	1	ACROLEIN	M0011	OUT	3.30E-02		3.36E-02	
030-012193A	1P030	2	ACROLEIN	M0011	OUT	2.50E-02		2.70E-02	
030-012193A	1P030	3	ACROLEIN	M0011	OUT	4.60E-02		5.01E-02	
030-012193A	1P030	1	BENZALD	M0011	OUT	2.38E-02		4.58E-02	
030-012193A	1P030	2	BENZALD	M0011	OUT	1.85E-02		3.74E-02	
030-012193A	1P030	3	BENZALD	M0011	OUT	2.07E-02		4.27E-02	
030-012193A	1P030	1	BUTYLALDEH	M0011	OUT	4.02E-02		5.32E-02	
030-012193A	1P030	2	BUTYLALDEH	M0011	OUT	2.76E-02		3.82E-02	
030-012193A	1P030	3	BUTYLALDEH	M0011	OUT	2.86E-02		4.02E-02	
030-012193A	1P030	1	HEXALD	M0011	OUT	1.80E-01		3.27E-01	
030-012193A	1P030	2	HEXALD	M0011	OUT	1.25E-01		2.39E-01	
030-012193A	1P030	3	HEXALD	M0011	OUT	1.59E-01		3.09E-01	
030-012193A	1P030	1	ISOVALALD	M0011	OUT	1.38E-02		2.14E-02	
030-012193A	1P030	2	ISOVALALD	M0011	OUT	2.90E-03		4.82E-03	
030-012193A	1P030	3	ISOVALALD	M0011	OUT	1.10E-02		1.84E-02	
030-012193A	1P030	1	VALALD	M0011	OUT	6.32E-02		9.87E-02	
030-012193A	1P030	2	VALALD	M0011	OUT	4.41E-02		7.31E-02	
030-012193A	1P030	3	VALALD	M0011	OUT	4.68E-02		7.83E-02	
166-092892A	3D166	1	SO2	M6	OUT	5.00E-02		2.00E-02	3.00E-03
166-092992A	4D166	3	SO2	M6	OUT	5.00E-02		1.00E-02	1.00E-03
166-100192A	1D166	3	SO2	M6	OUT	7.00E-02		2.50E-02	2.00E-03
166-100292A	5D166	1	SO2	M6	OUT	5.00E-02		1.00E-02	1.00E-03
166-100692A	2D166	1	SO2	M6	OUT	6.00E-02		3.00E-02	2.00E-03

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 7b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Compounds not listed in SW 846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
				Compounds not listed in SW 846 Method 5041; considered semiquantitative due to lack of acceptance criteria.
		3.31E-04		
		3.08E-04		
		1.71E-02		Estimated; below calibration, above detection.
		7.35E-02		
		1.07E-02		
		1.35E-02		
		2.35E-02		Estimated; below calibration, above detection.
		1.39E-02		
		1.90E-03		Estimated; below calibration, above detection.
		2.57E-03		Estimated; below calibration, above detection.
		3.16E-03		
		2.60E-03		
		3.60E-03		
		2.69E-03		
		3.01E-03		
		3.62E-03		
		2.52E-03		
		1.86E-02		Estimated; below calibration, above detection.
		2.28E-02		
		1.95E-02		
		1.21E-03		Estimated; below calibration, above detection.
		4.59E-04		
		1.16E-03		
		5.60E-03		
		6.95E-03		
		4.93E-03		

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 8a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
202-071592C	XD202	1	METH	M18	OUT	3.60E+01		3.70E+00	1.94E-01
202-071592C	XD202	2	METH	M18	OUT	3.20E+01		3.20E+00	1.68E-01
202-071592C	XD202	3	METH	M18	OUT	3.50E+01		3.80E+00	1.99E-01
202-071592D	1D202	1	METH	M18	OUT	0.00E+00		0.00E+00	
202-071592D	1D202	2	METH	M18	OUT	2.00E+00		1.00E-01	
202-071592D	1D202	3	METH	M18	OUT	2.00E+00		1.00E-01	
202-071592E	2D202	1	METH	M18	OUT	6.40E+01		4.60E+00	4.04E-01
202-071592E	2D202	2	METH	M18	OUT	5.60E+01		4.10E+00	3.60E-01
202-071592E	2D202	3	METH	M18	OUT	4.20E+01		3.10E+00	2.72E-01
228-091592A	3D228	1	ACETALD	M0011	IN	3.32E+00		8.52E-01	6.49E-02
228-091592A	3D228	2	ACETALD	M0011	IN	3.38E+00		8.94E-01	7.17E-02
228-091592A	3D228	3	ACETALD	M0011	IN	3.21E+00		8.70E-01	7.34E-02
228-091592A	3D228	1	ACETONE	M0011	IN	3.29E+00		1.11E+00	8.45E-02
228-091592A	3D228	2	ACETONE	M0011	IN	1.60E+00		5.54E-01	4.44E-02
228-091592A	3D228	3	ACETONE	M0011	IN	4.91E+00		1.75E+00	1.48E-01
228-091592A	3D228	1	ACROLEIN	M0011	IN	1.18E+00		3.87E-01	2.95E-02
228-091592A	3D228	2	ACROLEIN	M0011	IN	9.20E-01		3.09E-01	2.48E-02
228-091592A	3D228	3	ACROLEIN	M0011	IN	4.17E-01		1.44E-01	1.21E-02
228-091592A	3D228	1	BUTYLALDEH	M0011	IN	6.64E-01		2.79E-01	2.12E-02
228-091592A	3D228	2	BUTYLALDEH	M0011	IN	3.14E-01		1.36E-01	1.09E-02
228-091592A	3D228	3	BUTYLALDEH	M0011	IN	1.47E+00		6.52E-01	5.50E-02
228-091592A	3D228	1	CROTONALD	M0011	IN	1.42E-01		5.79E-02	4.41E-03
228-091592A	3D228	2	CROTONALD	M0011	IN	1.65E-01		6.92E-02	5.55E-03
228-091592A	3D228	3	CROTONALD	M0011	IN	5.59E-01		2.41E-01	2.03E-02
228-091592A	3D228	1	PROPIONALD	M0011	IN	3.21E-01		1.09E-01	8.30E-03
228-091592A	3D228	2	PROPIONALD	M0011	IN	1.32E-01		4.60E-02	3.69E-03
228-091592A	3D228	3	PROPIONALD	M0011	IN	6.41E-01		2.29E-01	1.93E-02
228-091692C	1D228	1	2,5 DMBENZ	M0011	OUT	8.86E-03		9.21E-03	9.55E-04
228-091692C	1D228	2	2,5 DMBENZ	M0011	OUT	1.70E-02		1.72E-02	1.78E-03
228-091692C	1D228	3	2,5 DMBENZ	M0011	OUT	1.44E-02		1.49E-02	1.71E-03
228-091692C	1D228	1	ACETALD	M0011	OUT	9.85E-02		3.37E-02	3.49E-03
228-091692C	1D228	2	ACETALD	M0011	OUT	2.49E-01		8.29E-02	8.60E-03
228-091692C	1D228	3	ACETALD	M0011	OUT	8.66E-02		2.94E-02	3.38E-03
228-091692C	1D228	1	ACETONE	M0011	OUT	2.27E-01		1.02E-01	1.06E-02
228-091692C	1D228	2	ACETONE	M0011	OUT	2.93E-01		1.29E-01	1.34E-02
228-091692C	1D228	3	ACETONE	M0011	OUT	3.04E-01		1.35E-01	1.55E-02
228-091692C	1D228	1	ACROLEIN	M0011	OUT	2.15E-02		9.34E-03	9.69E-04
228-091692C	1D228	2	ACROLEIN	M0011	OUT	2.51E-02		1.06E-02	1.10E-03
228-091692C	1D228	3	ACROLEIN	M0011	OUT	7.53E-03		3.25E-03	3.73E-04
228-091692C	1D228	1	BENZALD	M0011	OUT	6.92E-02		5.70E-02	5.91E-03
228-091692C	1D228	2	BENZALD	M0011	OUT	1.59E-01		1.27E-01	1.31E-02
228-091692C	1D228	3	BENZALD	M0011	OUT	5.92E-02		4.83E-02	5.55E-03
228-091692C	1D228	1	BUTYLALDEH	M0011	OUT	3.36E-02		1.88E-02	1.95E-03

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 8b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				2 Dryers with a common stack.
				2 Dryers with a common stack.
				2 Dryers with a common stack.

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 9a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
228-091692C	1D228	2	BUTYLALDEH	M0011	OUT	3.73E-02		2.03E-02	2.11E-03
228-091692C	1D228	3	BUTYLALDEH	M0011	OUT	2.59E-02		1.44E-02	1.65E-03
228-091692C	1D228	1	CROTONALD	M0011	OUT	1.53E-02		8.30E-03	8.61E-04
228-091692C	1D228	2	CROTONALD	M0011	OUT	1.89E-02		9.90E-03	1.03E-03
228-091692C	1D228	3	CROTONALD	M0011	OUT	9.30E-03		5.00E-03	5.74E-04
228-091692C	1D228	1	HEXALD	M0011	OUT	5.57E-02		4.33E-02	4.49E-03
228-091692C	1D228	2	HEXALD	M0011	OUT	8.68E-02		6.58E-02	6.83E-03
228-091692C	1D228	3	HEXALD	M0011	OUT	8.37E-02		6.44E-02	7.39E-03
228-091692C	1D228	1	ISOVALALD	M0011	OUT	1.44E-02		9.60E-03	9.96E-04
228-091692C	1D228	2	ISOVALALD	M0011	OUT	2.22E-02		1.44E-02	1.49E-03
228-091692C	1D228	3	ISOVALALD	M0011	OUT	1.02E-02		6.70E-03	7.69E-04
228-091692C	1D228	2	MEK	M0011	OUT	1.04E-02		5.64E-03	5.85E-04
228-091692C	1D228	3	MEK	M0011	OUT	5.13E-03		2.84E-03	3.26E-04
228-091692C	1D228	1	O-TOLALD	M0011	OUT	4.31E-03		4.02E-03	4.17E-04
228-091692C	1D228	2	O-TOLALD	M0011	OUT	1.03E-02		9.32E-03	9.67E-04
228-091692C	1D228	3	O-TOLALD	M0011	OUT	5.71E-03		5.08E-03	6.06E-04
228-091692C	1D228	1	P-TOLALD	M0011	OUT	3.70E-02		3.45E-02	3.58E-03
228-091692C	1D228	2	P-TOLALD	M0011	OUT	8.00E-02		7.27E-02	7.54E-03
228-091692C	1D228	3	P-TOLALD	M0011	OUT	2.47E-02		2.29E-02	2.63E-03
228-091692C	1D228	1	PROPIONALD	M0011	OUT	6.33E-03		2.85E-03	2.96E-04
228-091692C	1D228	2	PROPIONALD	M0011	OUT	1.46E-02		6.43E-03	6.67E-04
228-091692C	1D228	3	PROPIONALD	M0011	OUT	3.94E-03		1.76E-03	2.02E-04
228-091692C	1D228	1	VALALD	M0011	OUT	4.39E-02		2.93E-02	3.04E-03
228-091692C	1D228	2	VALALD	M0011	OUT	5.87E-02		3.82E-02	3.96E-03
228-091692C	1D228	3	VALALD	M0011	OUT	6.73E-02		4.45E-02	5.11E-03
228-091692E	3D228	1	2,5 DMBENZ	M0011	OUT	2.37E-02		1.85E-02	1.66E-03
228-091692E	3D228	2	2,5 DMBENZ	M0011	OUT	2.91E-02		2.34E-02	1.90E-03
228-091692E	3D228	3	2,5 DMBENZ	M0011	OUT	1.82E-01		1.50E-01	1.23E-02
228-091692E	3D228	1	ACETALD	M0011	OUT	3.32E+00		8.52E-01	7.70E-02
228-091692E	3D228	2	ACETALD	M0011	OUT	3.39E+00		8.94E-01	7.30E-02
228-091692E	3D228	3	ACETALD	M0011	OUT	3.21E+00		8.70E-01	7.10E-02
228-091692E	3D228	1	ACETONE	M0011	OUT	3.29E+00		1.11E+00	1.00E-01
228-091692E	3D228	2	ACETONE	M0011	OUT	1.60E+00		5.54E-01	4.50E-02
228-091692E	3D228	3	ACETONE	M0011	OUT	4.91E+00		1.75E+00	1.43E-01
228-091692E	3D228	1	ACROLEIN	M0011	OUT	1.18E+00		3.87E-01	3.50E-02
228-091692E	3D228	2	ACROLEIN	M0011	OUT	9.20E-01		3.09E-01	2.50E-02
228-091692E	3D228	3	ACROLEIN	M0011	OUT	4.17E-01		1.44E-01	1.20E-02
228-091692E	3D228	1	BENZALD	M0011	OUT	1.97E+00		1.22E+00	1.09E-01
228-091692E	3D228	2	BENZALD	M0011	OUT	2.67E+00		1.70E+00	1.38E-01
228-091692E	3D228	3	BENZALD	M0011	OUT	2.03E+00		1.32E+00	1.08E-01
228-091692E	3D228	1	CROTONALD	M0011	OUT	1.42E-01		5.80E-02	5.20E-03
228-091692E	3D228	2	CROTONALD	M0011	OUT	1.65E-01		6.90E-02	5.60E-03
228-091692E	3D228	3	CROTONALD	M0011	OUT	5.59E-01		2.41E-01	1.97E-02

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 9b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				P-Tolad and M-Tolad are combined.
				P-Tolad and M-Tolad are combined.
				P-Tolad and M-Tolad are combined.

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 10a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
228-091692E	3D228	1	HEXALD	M0011	OUT	3.73E-01		2.18E-01	1.96E-02
228-091692E	3D228	2	HEXALD	M0011	OUT	4.29E-01		2.57E-01	2.09E-02
228-091692E	3D228	3	HEXALD	M0011	OUT	5.23E-01		3.72E-01	2.64E-02
228-091692E	3D228	1	ISOVALALD	M0011	OUT	3.80E-01		1.90E-01	1.71E-02
228-091692E	3D228	2	ISOVALALD	M0011	OUT	4.33E-01		2.23E-01	1.81E-02
228-091692E	3D228	3	ISOVALALD	M0011	OUT	4.40E-01		2.33E-01	1.91E-02
228-091692E	3D228	1	MEK	M0011	OUT	2.34E-01		9.84E-02	8.85E-03
228-091692E	3D228	2	MEK	M0011	OUT	2.54E-01		1.10E-01	8.94E-03
228-091692E	3D228	3	MEK	M0011	OUT	2.73E-01		1.21E-01	9.90E-03
228-091692E	3D228	1	N-BUTYRALD	M0011	OUT	6.64E-01		2.79E-01	2.51E-02
228-091692E	3D228	2	N-BUTYRALD	M0011	OUT	3.14E-01		1.36E-01	1.10E-02
228-091692E	3D228	3	N-BUTYRALD	M0011	OUT	1.47E+00		6.52E-01	5.34E-02
228-091692E	3D228	1	O-TOLALD	M0011	OUT	1.40E-01		9.80E-02	8.80E-03
228-091692E	3D228	2	O-TOLALD	M0011	OUT	1.94E-01		1.39E-01	1.13E-02
228-091692E	3D228	3	O-TOLALD	M0011	OUT	1.89E-01		1.40E-01	1.15E-02
228-091692E	3D228	1	P-TOLALD	M0011	OUT	5.10E-01		3.57E-01	3.21E-02
228-091692E	3D228	2	P-TOLALD	M0011	OUT	6.26E-01		4.50E-01	3.66E-02
228-091692E	3D228	3	P-TOLALD	M0011	OUT	1.68E-01		1.24E-01	1.01E-02
228-091692E	3D228	1	PROPIONALD	M0011	OUT	3.21E-01		1.09E-01	1.00E-02
228-091692E	3D228	2	PROPIONALD	M0011	OUT	1.32E-01		4.60E-02	4.00E-03
228-091692E	3D228	3	PROPIONALD	M0011	OUT	6.41E-01		2.29E-01	1.90E-02
228-091692E	3D228	1	VALALD	M0011	OUT	1.77E-01		8.88E-02	7.99E-03
228-091692E	3D228	2	VALALD	M0011	OUT	4.60E-01		2.37E-01	1.93E-02
228-091692E	3D228	3	VALALD	M0011	OUT	3.34E-01		1.77E-01	1.45E-02
228-091792A	1D228	1	A-PINENE	M0010	OUT	3.68E+00		3.80E+00	3.94E-01
228-091792A	1D228	1	A-PINENE	M0030	OUT	4.07E+00		4.14E+00	4.29E-01
228-091792A	1D228	2	A-PINENE	M0010	OUT	2.89E+00		3.18E+00	3.30E-01
228-091792A	1D228	2	A-PINENE	M0030	OUT	5.95E+00		6.56E+00	6.80E-01
228-091792A	1D228	3	A-PINENE	M0010	OUT	2.77E+00		3.12E+00	3.60E-01
228-091792A	1D228	3	A-PINENE	M0030	OUT	4.60E+00		5.17E+00	5.97E-01
228-091792A	1D228	1	A-TERPINE	M0010	OUT	3.76E-01		4.40E-01	4.56E-02
228-091792A	1D228	2	A-TERPINE	M0010	OUT	3.74E-01		4.66E-01	4.83E-02
228-091792A	1D228	3	A-TERPINE	M0010	OUT	4.12E-01		5.24E-01	6.65E-02
228-091792A	1D228	1	ACETONE	M0030	OUT	6.54E-01		2.83E-01	2.94E-02
228-091792A	1D228	2	ACETONE	M0030	OUT	6.91E-01		3.24E-01	3.36E-02
228-091792A	1D228	3	ACETONE	M0030	OUT	5.93E-01		2.84E-01	3.28E-02
228-091792A	1D228	1	B-PINENE	M0010	OUT	1.20E+00		1.24E+00	1.29E-01
228-091792A	1D228	1	B-PINENE	M0030	OUT	1.81E+00		1.84E+00	1.91E-01
228-091792A	1D228	2	B-PINENE	M0010	OUT	1.02E+00		1.12E+00	1.16E-01
228-091792A	1D228	2	B-PINENE	M0030	OUT	2.27E+00		2.50E+00	2.59E-01
228-091792A	1D228	3	B-PINENE	M0010	OUT	8.63E-01		9.69E-01	1.12E-01
228-091792A	1D228	3	B-PINENE	M0030	OUT	1.39E+00		1.56E+00	1.80E-01
228-091792A	1D228	1	METHENECH	M0030	OUT	1.81E-02		1.15E-02	1.19E-03

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 10b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				P-Tolad and M-Tolad are combined.
				P-Tolad and M-Tolad are combined.
				P-Tolad and M-Tolad are combined.

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 11a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
228-091792A	1D228	2	METHENECH	M0030	OUT	5.46E-02		3.75E-02	3.89E-03
228-091792A	1D228	3	METHENECH	M0030	OUT	5.73E-02		4.01E-02	4.63E-03
228-091792A	1D228	1	P-CYMEME	M0010	OUT	8.40E-03		8.55E-03	8.87E-04
228-091792A	1D228	1	P-CYMEME	M0030	OUT	1.39E-02		1.39E-02	1.44E-03
228-091792A	1D228	2	P-CYMEME	M0010	OUT	8.70E-03		9.41E-03	9.76E-04
228-091792A	1D228	2	P-CYMEME	M0030	OUT	1.27E-02		1.38E-02	1.43E-03
228-091792A	1D228	3	P-CYMEME	M0010	OUT	8.40E-03		9.29E-03	1.07E-03
228-091792A	1D228	3	P-CYMEME	M0030	OUT	2.93E-02		3.24E-02	3.74E-03
228-091792A	1D228	1	TOLUENE	M0030	OUT	2.44E-02		1.68E-02	1.74E-03
228-091792A	1D228	2	TOLUENE	M0030	OUT	1.58E-02		1.18E-02	1.22E-03
228-091792A	1D228	3	TOLUENE	M0030	OUT	8.90E-03		6.80E-03	7.85E-04
228-091792B	3D228	1	A-PINENE	M0010	OUT	3.08E+01		2.50E+01	2.03E+00
228-091792B	3D228	1	A-PINENE	M0030	OUT	3.84E+00		3.96E+00	3.22E-01
228-091792B	3D228	2	A-PINENE	M0010	OUT	3.91E+01		3.36E+01	2.73E+00
228-091792B	3D228	2	A-PINENE	M0030	OUT	2.49E+01		2.74E+01	2.23E+00
228-091792B	3D228	3	A-PINENE	M0010	OUT	3.38E+01		2.62E+01	2.13E+00
228-091792B	3D228	3	A-PINENE	M0030	OUT	2.38E+01		2.67E+01	2.16E+00
228-091792B	3D228	1	A-TERPINE	M0010	OUT	2.51E+00		2.31E+00	1.88E-01
228-091792B	3D228	2	A-TERPINE	M0010	OUT	1.77E+00		1.72E+00	1.40E-01
228-091792B	3D228	3	A-TERPINE	M0010	OUT	2.41E+00		2.11E+00	1.72E-01
228-091792B	3D228	1	ACETONE	M0030	OUT	1.74E+00		7.67E-01	6.23E-02
228-091792B	3D228	2	ACETONE	M0030	OUT	8.38E+00		3.93E+00	3.19E-01
228-091792B	3D228	3	ACETONE	M0030	OUT	1.23E+01		5.91E+00	4.80E-01
228-091792B	3D228	1	B-PINENE	M0010	OUT	1.26E+01		1.02E+01	8.29E-01
228-091792B	3D228	1	B-PINENE	M0030	OUT	2.64E+00		2.73E+00	2.22E-01
228-091792B	3D228	2	B-PINENE	M0010	OUT	1.08E+01		9.25E+00	7.51E-01
228-091792B	3D228	2	B-PINENE	M0030	OUT	1.31E+01		1.44E+01	1.17E+00
228-091792B	3D228	3	B-PINENE	M0010	OUT	1.27E+01		9.80E+00	7.96E-01
228-091792B	3D228	3	B-PINENE	M0030	OUT	1.25E+01		1.41E+01	1.15E+00
228-091792B	3D228	1	BENZENE	M0030	OUT	9.67E-02		5.72E-02	4.65E-03
228-091792B	3D228	1	CHLOROFOR	M0030	OUT	4.10E-04		3.67E-04	2.98E-05
228-091792B	3D228	2	CHLOROFOR	M0030	OUT	2.30E-03		2.20E-03	1.79E-04
228-091792B	3D228	1	CUMENE	M0030	OUT	1.80E-02		1.64E-02	1.33E-03
228-091792B	3D228	2	CUMENE	M0030	OUT	1.80E-02		1.76E-02	1.43E-03
228-091792B	3D228	3	CUMENE	M0030	OUT	4.19E-02		4.15E-02	3.37E-03
228-091792B	3D228	1	M,P XYLENE	M0030	OUT	7.23E-02		5.81E-02	4.72E-03
228-091792B	3D228	2	M,P XYLENE	M0030	OUT	6.10E-02		5.23E-02	4.25E-03
228-091792B	3D228	3	M,P XYLENE	M0030	OUT	1.93E-01		1.69E-01	1.37E-02
228-091792B	3D228	1	METHENECH	M0030	OUT	4.83E-03		3.11E-03	2.53E-04
228-091792B	3D228	2	METHENECH	M0030	OUT	4.57E-02		3.14E-02	2.55E-03
228-091792B	3D228	3	METHENECH	M0030	OUT	6.55E-02		4.59E-02	3.73E-03
228-091792B	3D228	1	O-XYLENE	M0030	OUT	5.21E-03		4.19E-03	3.40E-04
228-091792B	3D228	3	O-XYLENE	M0030	OUT	7.90E-03		6.91E-03	5.61E-04

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 11b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 12a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
228-091792B	3D228	1	P-CYMEME	M0010	OUT	1.01E-01		8.06E-02	6.55E-03
228-091792B	3D228	1	P-CYMEME	M0030	OUT	7.01E-02		7.13E-02	5.70E-03
228-091792B	3D228	2	P-CYMEME	M0030	OUT	2.20E-01		2.39E-01	1.94E-02
228-091792B	3D228	3	P-CYMEME	M0010	OUT	1.07E-01		8.19E-02	6.65E-03
228-091792B	3D228	3	P-CYMEME	M0030	OUT	2.17E-01		2.40E-01	1.95E-02
228-091792B	3D228	1	STYRENE	M0030	OUT	4.04E-03		3.19E-03	2.59E-04
228-091792B	3D228	3	STYRENE	M0030	OUT	6.54E-03		5.62E-03	4.57E-04
228-091792B	3D228	1	TOLUENE	M0030	OUT	1.82E-01		1.27E-01	1.03E-02
228-091792B	3D228	2	TOLUENE	M0030	OUT	3.75E-01		2.79E-01	2.27E-02
228-091792B	3D228	3	TOLUENE	M0030	OUT	4.97E-01		3.78E-01	3.07E-02
228-091992H	1P228	1	ACETALD	M0011	OUT	1.87E-01		7.38E-02	
228-091992H	1P228	2	ACETALD	M0011	OUT	2.01E-01		7.56E-02	
228-091992H	1P228	3	ACETALD	M0011	OUT	2.06E-01		8.06E-02	
228-091992H	1P228	1	ACETONE	M0011	OUT	1.95E-01		1.01E-01	
228-091992H	1P228	2	ACETONE	M0011	OUT	3.81E-01		1.87E-01	
228-091992H	1P228	3	ACETONE	M0011	OUT	2.26E-01		1.14E-01	
228-091992H	1P228	1	ACROLEIN	M0011	OUT	5.81E-02		2.76E-02	
228-091992H	1P228	2	ACROLEIN	M0011	OUT	3.51E-02		1.69E-02	
228-091992H	1P228	3	ACROLEIN	M0011	OUT	3.09E-02		1.56E-02	
228-091992H	1P228	1	BENZALD	M0011	OUT	1.85E-02		1.74E-02	
228-091992H	1P228	2	BENZALD	M0011	OUT	2.44E-02		2.22E-02	
228-091992H	1P228	3	BENZALD	M0011	OUT	2.96E-02		2.77E-02	
228-091992H	1P228	1	BUTYLALDEH	M0011	OUT	3.58E-02		2.26E-02	
228-091992H	1P228	2	BUTYLALDEH	M0011	OUT	4.06E-02		2.48E-02	
228-091992H	1P228	3	BUTYLALDEH	M0011	OUT	3.20E-02		2.01E-02	
228-091992H	1P228	1	CROTONALD	M0011	OUT	1.60E-02		9.62E-03	
228-091992H	1P228	2	CROTONALD	M0011	OUT	1.34E-02		7.94E-03	
228-091992H	1P228	3	CROTONALD	M0011	OUT	1.04E-02		6.25E-03	
228-091992H	1P228	1	HEXALD	M0011	OUT	4.98E-02		4.42E-02	
228-091992H	1P228	2	HEXALD	M0011	OUT	1.36E-01		1.17E-01	
228-091992H	1P228	3	HEXALD	M0011	OUT	7.99E-02		7.06E-02	
228-091992H	1P228	1	ISOVALALD	M0011	OUT	2.13E-02		1.62E-02	
228-091992H	1P228	2	ISOVALALD	M0011	OUT	2.09E-02		2.25E-02	
228-091992H	1P228	3	ISOVALALD	M0011	OUT	2.97E-02		2.24E-02	
228-091992H	1P228	2	MEK	M0011	OUT	8.70E-03		5.35E-03	
228-091992H	1P228	3	MEK	M0011	OUT	7.68E-03		4.91E-03	
228-091992H	1P228	1	PROPIONALD	M0011	OUT	5.06E-03		1.25E-03	
228-091992H	1P228	3	PROPIONALD	M0011	OUT	3.14E-03		8.55E-04	
228-091992H	1P228	1	VALALD	M0011	OUT	2.80E-02		2.12E-02	
228-091992H	1P228	2	VALALD	M0011	OUT	6.14E-02		4.52E-02	
228-091992H	1P228	3	VALALD	M0011	OUT	4.05E-02		3.04E-02	
228-092292A	1C228	1	ACETALD	M0011	OUT	9.35E-02	1.87E-02		
228-092292A	1C228	2	ACETALD	M0011	OUT	7.99E-02	1.71E-02		

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 12b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
		4.80E-03		Press and cooler emissions are separate, not summed.
		3.90E-03		Press and cooler emissions are separate, not summed.
		5.90E-03		Press and cooler emissions are separate, not summed.
		6.50E-03		Press and cooler emissions are separate, not summed.
		9.70E-03		Press and cooler emissions are separate, not summed.
		8.30E-03		Press and cooler emissions are separate, not summed.
		1.80E-03		Press and cooler emissions are separate, not summed.
		9.00E-04		Press and cooler emissions are separate, not summed.
		1.10E-03		Press and cooler emissions are separate, not summed.
		1.19E-03		Press and cooler emissions are separate, not summed.
		1.16E-03		Press and cooler emissions are separate, not summed.
		2.16E-03		Press and cooler emissions are separate, not summed.
		1.46E-03		Press and cooler emissions are separate, not summed.
		1.29E-03		Press and cooler emissions are separate, not summed.
		1.47E-03		Press and cooler emissions are separate, not summed.
		6.20E-04		Press and cooler emissions are separate, not summed.
		4.10E-04		Press and cooler emissions are separate, not summed.
		4.60E-04		Press and cooler emissions are separate, not summed.
		2.85E-03		Press and cooler emissions are separate, not summed.
		6.09E-03		Press and cooler emissions are separate, not summed.
		5.15E-03		Press and cooler emissions are separate, not summed.
		1.05E-03		Press and cooler emissions are separate, not summed.
		1.17E-03		Press and cooler emissions are separate, not summed.
		1.64E-03		Press and cooler emissions are separate, not summed.
		2.80E-04		Press and cooler emissions are separate, not summed.
		3.60E-04		Press and cooler emissions are separate, not summed.
		8.00E-05		Press and cooler emissions are separate, not summed.
		6.30E-05		Press and cooler emissions are separate, not summed.
		1.37E-03		Press and cooler emissions are separate, not summed.
		2.35E-03		Press and cooler emissions are separate, not summed.
		2.22E-03		Press and cooler emissions are separate, not summed.
		1.31E-03		Press and cooler emissions are separate, not summed.
		1.20E-03		Press and cooler emissions are separate, not summed.

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 13a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
228-092292A	1C228	3	ACETALD	M0011	OUT	8.17E-02	1.87E-02		
228-092292A	1C228	1	ACETONE	M0011	OUT	1.28E-01	3.39E-02		
228-092292A	1C228	2	ACETONE	M0011	OUT	8.83E-02	2.49E-02		
228-092292A	1C228	3	ACETONE	M0011	OUT	7.70E-02	2.27E-02		
228-092292A	1C228	1	ACROLEIN	M0011	OUT	2.22E-02	5.91E-03		
228-092292A	1C228	2	ACROLEIN	M0011	OUT	1.67E-02	4.56E-03		
228-092292A	1C228	3	ACROLEIN	M0011	OUT	1.53E-02	4.47E-03		
228-092292A	1C228	1	BENZALD	M0011	OUT	1.33E-02	6.41E-03		
228-092292A	1C228	2	BENZALD	M0011	OUT	1.21E-02	6.50E-03		
228-092292A	1C228	3	BENZALD	M0011	OUT	8.21E-03	4.25E-03		
228-092292A	1C228	1	BUTYLALDEH	M0011	OUT	3.70E-03	7.71E-03		
228-092292A	1C228	2	BUTYLALDEH	M0011	OUT	2.51E-02	8.79E-03		
228-092292A	1C228	3	BUTYLALDEH	M0011	OUT	2.17E-02	8.16E-03		
228-092292A	1C228	1	CROTONALD	M0011	OUT	1.12E-02	3.57E-03		
228-092292A	1C228	2	CROTONALD	M0011	OUT	1.32E-02	4.47E-03		
228-092292A	1C228	3	CROTONALD	M0011	OUT	1.11E-02	3.95E-03		
228-092292A	1C228	1	HEXALD	M0011	OUT	3.60E-02	1.64E-02		
228-092292A	1C228	2	HEXALD	M0011	OUT	2.86E-02	1.39E-02		
228-092292A	1C228	3	HEXALD	M0011	OUT	2.71E-02	1.41E-02		
228-092292A	1C228	1	ISOVALALD	M0011	OUT	1.45E-02	5.65E-03		
228-092292A	1C228	2	ISOVALALD	M0011	OUT	1.40E-02	5.85E-03		
228-092292A	1C228	3	ISOVALALD	M0011	OUT	1.12E-02	5.01E-03		
228-092292A	1C228	1	MEK	M0011	OUT	4.42E-03	1.45E-03		
228-092292A	1C228	2	MEK	M0011	OUT	5.05E-03	1.77E-03		
228-092292A	1C228	3	MEK	M0011	OUT	3.97E-03	1.49E-03		
228-092292A	1C228	1	VALALD	M0011	OUT	1.89E-02	7.39E-03		
228-092292A	1C228	2	VALALD	M0011	OUT	2.21E-02	9.25E-03		
228-092292A	1C228	3	VALALD	M0011	OUT	1.58E-02	7.08E-03		

PARTICLEBOARD - GENERIC POLLUTANT TABLE, page 13b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
		1.46E-03		Press and cooler emissions are separate, not summed.
		2.38E-03		Press and cooler emissions are separate, not summed.
		1.75E-03		Press and cooler emissions are separate, not summed.
		1.77E-03		Press and cooler emissions are separate, not summed.
		4.15E-04		Press and cooler emissions are separate, not summed.
		3.20E-04		Press and cooler emissions are separate, not summed.
		3.48E-04		Press and cooler emissions are separate, not summed.
		4.49E-04		Press and cooler emissions are separate, not summed.
		4.60E-04		Press and cooler emissions are separate, not summed.
		3.55E-04		Press and cooler emissions are separate, not summed.
		5.41E-04		Press and cooler emissions are separate, not summed.
		6.20E-04		Press and cooler emissions are separate, not summed.
		6.36E-04		Press and cooler emissions are separate, not summed.
		2.51E-04		Press and cooler emissions are separate, not summed.
		3.10E-04		Press and cooler emissions are separate, not summed.
		3.08E-04		Press and cooler emissions are separate, not summed.
		1.15E-03		Press and cooler emissions are separate, not summed.
		9.80E-04		Press and cooler emissions are separate, not summed.
		1.10E-03		Press and cooler emissions are separate, not summed.
		3.97E-04		Press and cooler emissions are separate, not summed.
		4.10E-04		Press and cooler emissions are separate, not summed.
		3.90E-04		Press and cooler emissions are separate, not summed.
		1.01E-04		Press and cooler emissions are separate, not summed.
		1.20E-04		Press and cooler emissions are separate, not summed.
		1.16E-04		Press and cooler emissions are separate, not summed.
		5.18E-04		Press and cooler emissions are separate, not summed.
		6.50E-04		Press and cooler emissions are separate, not summed.
		3.23E-03		Press and cooler emissions are separate, not summed.

PARTICLEBOARD - NITROGEN OXIDES TABLE, page 1a of 2(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
030-011993B	1D030	1	NOX	M7	OUT	11.5		2.63	0.174
030-011993B	1D030	2	NOX	M7	OUT	1.41		0.34	0.023
030-011993B	1D030	3	NOX	M7	OUT	1.64		0.4	0.0253
030-012093B	2D030	1	NOX	M7	OUT	41.4		9.39	1.04
030-012093B	2D030	2	NOX	M7	OUT	26.4		6.47	1.064
030-012093B	2D030	3	NOX	M7	OUT	15.5		3.4	0.457
045-041593A	1D045	1	NOX	M7E	OUT	43.8		11.02	0.745
045-041593A	1D045	2	NOX	M7E	OUT	38.4		8.9	0.509
045-041593B	2D045	1	NOX	M7E	OUT	27.5		5.96	0.286
045-041593B	2D045	2	NOX	M7E	OUT	19.6		4.04	0.158
156-032191A	XD156	1	NOX	M7E	OUT	299		19.1	0.682
156-032191A	XD156	2	NOX	M7E	OUT	352		19.8	0.68
156-032191A	XD156	3	NOX	M7E	OUT	278		12.9	0.461
156-062592A	XD156	1	NOX	M7E	OUT	345		32.7	0.973
156-062592A	XD156	2	NOX	M7E	OUT	345		31.3	0.932
156-062592A	XD156	3	NOX	M7E	OUT	345		27.9	0.83
166-092892A	3D166	1	NOX	M7C	OUT	73		17.62	
166-092892A	3D166	2	NOX	M7C	OUT	67		16.16	2.649
166-092892A	3D166	3	NOX	M7C	OUT	63		15.37	2.605
166-092992A	4D166	1	NOX	M7C	OUT	72		15.69	1.353
166-092992A	4D166	2	NOX	M7C	OUT	70		15.64	1.612
166-092992A	4D166	3	NOX	M7C	OUT	65		14.54	1.499
166-100192A	1D166	1	NOX	M7C	OUT	74		18.83	1.17
166-100192A	1D166	2	NOX	M7C	OUT	67		18.27	1.314
166-100192A	1D166	3	NOX	M7C	OUT	62		16.9	1.225
166-100192B	1D166	1	NOX	M7C	OUT	67		18.69	1.763
166-100192B	1D166	2	NOX	M7C	OUT	68		18.15	1.797
166-100192B	1D166	3	NOX	M7C	OUT	65		17.97	2.165
166-100292A	5D166	1	NOX	M7C	OUT	5		0.57	0.074
166-100292A	5D166	2	NOX	M7C	OUT	6		0.7	0.063
166-100292A	5D166	3	NOX	M7C	OUT	8		0.95	0.094
166-100692A	2D166	1	NOX	M7C	OUT	23		2.49	0.293
166-100692A	2D166	2	NOX	M7C	OUT	14		1.58	0.178
166-100692B	2D166	1	NOX	M7C	OUT	17		1.84	0.207
166-100692B	2D166	2	NOX	M7C	OUT	16		1.68	0.158
167-082189A	3D167	1	NOX	M7C	OUT	3.1		0.7	0.078
167-082189A	3D167	2	NOX	M7C	OUT	3.5		0.8	0.089
167-082189A	3D167	3	NOX	M7C	OUT	5.4		1.3	0.141
167-091890A	4D167	1	NOX	M7C	OUT	90.3		21.9	1.938
167-091890A	4D167	2	NOX	M7C	OUT	81		19.5	1.711

PARTICLEBOARD - NITROGEN OXIDES TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Report provided pollutant emissions as lb/MSF 3/4
				Report provided pollutant emissions as lb/MSF 3/4
				Report provided pollutant emissions as lb/MSF 3/4
				Report provided pollutant emissions as lb/MSF 3/4
				Report provided pollutant emissions as lb/MSF 3/4
				Report provided pollutant emissions as lb/MSF 3/4
				NOX from natural gas, other units at facility 166 were burning some or all sanderdust.
				NOX from natural gas, other units at facility 166 were burning some or all sanderdust.
				NOX from natural gas, other units at facility 166 were burning some or all sanderdust.
				80% natutal gas, 20% sanderdust.
				80% natutal gas, 20% sanderdust.
				80% natutal gas, 20% sanderdust.
				80% natutal gas, 20% sanderdust.
				Comparison of fuels on NOX levels; sanderdust vs natural gas.
				Comparison of fuels on NOX levels; sanderdust vs natural gas.

PARTICLEBOARD - NITROGEN OXIDES TABLE, page 2a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
167-091890A	4D167	3	NOX	M7C	OUT	74.8		18.8	1.649
167-091890A	4D167	4	NOX	M7C	OUT	70.8		17.6	1.6
167-091990A	4D167	1	NOX	M7C	OUT	3.4		0.9	0.087
167-091990A	4D167	2	NOX	M7C	OUT	3.4		0.9	0.111
167-100490A	5D167	1	NOX	M7C	OUT	85		18.1	1.284
167-100490A	5D167	2	NOX	M7C	OUT	87.5		18.2	1.291
167-100490A	5D167	3	NOX	M7C	OUT	85		18.6	1.525
167-100490A	5D167	4	NOX	M7C	OUT	87.5		15.9	1.046
167-102090A	4D167	1	NOX	M7C	OUT	84		19.2	1.63
167-102090A	4D167	2	NOX	M7C	OUT	64		15.1	1.245
167-102090A	4D167	3	NOX	M7C	OUT	60		14.11	1.208
167-102090B	4D167	1	NOX	M7C	OUT	8		1.9	0.166
167-102090B	4D167	2	NOX	M7C	OUT	5		1.2	0.108
167-102090B	4D167	3	NOX	M7C	OUT	5		1.2	0.113
167-102390A	5D167	1	NOX	M7C	OUT	87.5		19.6	1.742
167-102390A	5D167	2	NOX	M7C	OUT	87.5		19.5	1.681
167-102390A	5D167	3	NOX	M7C	OUT	80		18.3	1.649
167-102588A	3D167	1	NOX	M7C	OUT	84.9		20	1.918
167-102588A	3D167	2	NOX	M7C	OUT	84.4		19.6	1.92
202-071393A	1D202	1	NOX	M7E	OUT	0		0	0
202-071393A	1D202	2	NOX	M7E	OUT	1		0.2	0.02
202-071393B	2D202	1	NOX	M7E	OUT	1		0.3	0.03
202-071393B	2D202	2	NOX	M7E	OUT	0		0.1	0.01
202-071592C	XD202	1	NOX	M7E	OUT	57		16.7	0.87
202-071592C	XD202	2	NOX	M7E	OUT	74		21.6	1.13
202-071592C	XD202	3	NOX	M7E	OUT	43		13.5	0.71
228-091492B	3D228	1	NOX	M7E	OUT	59.6		16	1.24
228-091492B	3D228	2	NOX	M7E	OUT	58.7		16.6	1.29
228-091492B	3D228	3	NOX	M7E	OUT	50.9		14.1	1.09
228-091692C	1D228	1	NOX	M7E	OUT	39		13.9	1.44
228-091692C	1D228	2	NOX	M7E	OUT	36.7		12.8	1.33
228-091692C	1D228	3	NOX	M7E	OUT	33.8		12	1.38

PARTICLEBOARD - NITROGEN OXIDES TABLE, page 2b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Comparison of fuels on NOX levels; sanderdust vs natural gas.
				Comparison of fuels on NOX levels; sanderdust vs natural gas.
				Comparison of fuels on NOX levels; sanderdust vs natural gas.
				Comparison of fuels on NOX levels; sanderdust vs natural gas.
				Comparison of fuels available, runs 1-3 (167-102090A) and 1-3 (167-102090B).
				Comparison of fuels available, runs 1-3 (167-102090A) and 1-3 (167-102090B).

PARTICLEBOARD - PARTICULATE MATTER (PM) TABLE, page 1a of 5(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
022-082190A	1F022	1	PM	M5	OUT			0.12	
022-102689A	1E022	1	PM	M5	OUT		0.005	1.22	
022-102689A	1E022	2	PM	M5	OUT		0.004	1.1	
022-102689B	1D022	1	PM	M5	OUT		0.047	11.7	
022-102689B	1D022	2	PM	M5	OUT		0.026	6.6	
022-102689C	2D022	1	PM	M5	OUT		0.143	31.3	
022-102689C	2D022	2	PM	M5	OUT		0.145	35.1	
022-102689D	1M022	1	PM	M5	OUT		0.031	8.27	
022-102689D	1M022	2	PM	M5	OUT		0.035	9.35	
022-102689E	2M022	1	PM	M5	OUT		0.03	7.75	
022-102689E	2M022	2	PM	M5	OUT		0.028	7.41	
022-112790A	3M022	1	PM	M5	OUT		0.004	1.05	
022-112790A	3M022	2	PM	M5	OUT		0.005	1.17	
022-112790A	3M022	3	PM	M5	OUT		0.004	0.91	
022-112790B	4M022	1	PM	M5	OUT		0.005	1.12	
022-112790B	4M022	2	PM	M5	OUT		0.005	1.25	
022-112790B	4M022	3	PM	M5	OUT		0.005	1.24	
030-011993C	1D030	1	PM	M5	OUT				
030-011993C	1D030	2	PM	M5	OUT		0.0714	20.6	1.18
030-011993C	1D030	3	PM	M5	OUT		0.0688	19.4	1.18
030-012093C	2D030	1	PM	M5	OUT		0.0681	19.7	1.84
030-012093C	2D030	2	PM	M5	OUT		0.1017	29.7	2.75
030-012093C	2D030	3	PM	M5	OUT		0.156	45.2	6.49
030-012193B	1P030	1	PM	M5	OUT			1.434	
043-032492A	1I043	1	PM	M5	OUT		0.443	5.57	0.77
043-032492A	1I043	2	PM	M5	OUT		0.583	8.89	1.23
043-032492A	1I043	3	PM	M5	OUT		0.448	7.08	0.98
043-032592A	3I043	1	PM	M5	OUT		0.002	0.06	
043-032592A	3I043	2	PM	M5	OUT		0.002	0.07	
043-032592A	3I043	3	PM	M5	OUT		0.004	0.11	
043-032592B	1M043	1	PM	M5	OUT		0.013	3.83	0.36
043-032592B	1M043	2	PM	M5	OUT		0.018	5.78	0.73
043-032592B	1M043	3	PM	M5	OUT		0.015	4.8	0.51
043-032692A	1F043	1	PM	M5	OUT		0.003	0.27	
043-032692A	1F043	2	PM	M5	OUT		0.002	0.22	
043-032692A	1F043	3	PM	M5	OUT		0.003	0.3	
043-040192A	1W043	1	PM	M5	OUT		0.032	6.2	
043-040192A	1W043	2	PM	M5	OUT		0.043	8.5	
043-040192A	1W043	3	PM	M5	OUT		0.034	6.7	
043-040192B	3S043	1	PM	M5	OUT		0.007	2.05	
043-040192B	3S043	2	PM	M5	OUT		0.006	1.69	
043-040192B	3S043	3	PM	M5	OUT		0.009	2.56	

PARTICLEBOARD - PARTICULATE MATTER (PM) TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				No production data
				No production data
				No production data
				No production data
				No production data
				No production data
				No production data
				No production data
				No production data
				No production data
				Comparison of "regular" & high efficiency cyclones available.
				Comparison of "regular" & high efficiency cyclones available.
				Comparison of "regular" & high efficiency cyclones available.
				Comparison of "regular" & high efficiency cyclones available.
				Comparison of "regular" & high efficiency cyclones available.
				Comparison of "regular" & high efficiency cyclones available.
				Outlier
		0.0822		
				Assumed sanderdust weight to be OD; moistures not provided.
				Assumed sanderdust weight to be OD; moistures not provided.
				Assumed sanderdust weight to be OD; moistures not provided.
			.071 lb/wet ton	Moisture content of hogged fuel unknown; may be trim.
			.088 lb/wet ton	Moisture content of hogged fuel unknown; may be trim.
			.151 lb/wet ton	Moisture content of hogged fuel unknown; may be trim.
				Pallman mills with cyclone.
				Pallman mills with cyclone.
				Pallman mills with cyclone.
				Former air classification; no production data.
				Former air classification; no production data.
				Former air classification; no production data.
		0.29		Trim Saw
		0.41		Trim Saw
		0.23		Trim Saw
		0.124		Top Fine Sander
		0.084		Top Fine Sander
		0.091		Top Fine Sander

PARTICLEBOARD - PARTICULATE MATTER (PM) TABLE, page 2a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
043-040193A	3M043	1	PM	M5	OUT		0.0034	0.89	0.059
043-040193A	3M043	2	PM	M5	OUT		0.0012	0.31	0.021
043-040193A	3M043	3	PM	M5	OUT		0.0009	0.26	0.017
043-040193B	4M043	1	PM	M5	OUT		0.003	0.81	0.06
043-040193B	4M043	2	PM	M5	OUT		0.0023	0.63	0.046
043-040193B	4M043	3	PM	M5	OUT		0.0022	0.59	0.043
043-040992A	2M043	1	PM	M5	OUT		0.087	23.1	
043-040992A	2M043	2	PM	M5	OUT		0.087	21.4	
043-040992A	2M043	3	PM	M5	OUT		0.101	25.1	
043-040992B	1Z043	1	PM	M5	OUT		0.008	2.22	
043-040992B	1Z043	2	PM	M5	OUT		0.006	1.84	
043-040992B	1Z043	3	PM	M5	OUT		0.007	1.9	
043-042192A	1D043	1	PM	M5	OUT		0.054	10.8	1.04
043-042192A	1D043	2	PM	M5	OUT		0.047	11.3	1.04
043-042192A	1D043	3	PM	M5	OUT		0.047	11.6	1.12
043-042192B	2D043	1	PM	M5	OUT		0.061	14.44	0.853
043-042192B	2D043	2	PM	M5	OUT		0.065	14.81	0.808
043-042192B	2D043	3	PM	M5	OUT		0.066	14.71	0.808
043-042392A	1S043	1	PM	M5	OUT		0.007	1.15	
043-042392A	1S043	2	PM	M5	OUT		0.005	0.85	
043-042392A	1S043	3	PM	M5	OUT		0.004	0.68	
043-042392B	2S043	1	PM	M5	OUT		0.012	3.33	
043-042392B	2S043	2	PM	M5	OUT		0.009	2.48	
043-042392B	2S043	3	PM	M5	OUT		0.009	2.47	
045-041593A	1D045	1	PM	M5	OUT		0.291	90.73	6.13
045-041593A	1D045	2	PM	M5	OUT		0.209	60.96	3.48
045-041593B	2D045	1	PM	M5	OUT		0.748	215.3	10.33
045-041593B	2D045	2	PM	M5	OUT		1.09	302.9	11.88
166-092892A	3D166	1	PM	M5	OUT		0.034	9.93	
166-092892A	3D166	2	PM	M5	OUT		0.026	7.39	1.21
166-092892A	3D166	3	PM	M5	OUT		0.023	6.73	1.14
166-092992A	4D166	1	PM	M5	OUT		0.045	11.65	1
166-092992A	4D166	2	PM	M5	OUT		0.023	6.32	0.65
166-092992A	4D166	3	PM	M5	OUT		0.021	5.62	0.58

PARTICLEBOARD - PARTICULATE MATTER (PM) TABLE, page 2b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Comparison between "normal" and high efficiency cyclones available.
				Comparison between "normal" and high efficiency cyclones available.
				Comparison between "normal" and high efficiency cyclones available.
				Comparison between "normal" and high efficiency cyclones available.
				Comparison between "normal" and high efficiency cyclones available.
				Comparison between "normal" and high efficiency cyclones available.
				No production data; Bauer mills with cyclone.
				No production data; Bauer mills with cyclone.
				No production data; Bauer mills with cyclone.
		0.069		Former reject system; production based emission rate based on amt. of material being processed to the formers (not to the baghouse).
		0.057		Former reject system; production based emission rate based on amt. of material being processed to the formers (not to the baghouse).
		0.062		Former reject system; production based emission rate based on amt. of material being processed to the formers (not to the baghouse).
				Face Dryer
				Face Dryer
				Face Dryer
				Core Dryer
				Core Dryer
				Core Dryer
		0.045		Sander baghouse for top & bottom coarse grit sander heads.
		0.035		Sander baghouse for top & bottom coarse grit sander heads.
		0.033		Sander baghouse for top & bottom coarse grit sander heads.
		0.131		Bottom Fine Sander
		0.101		Bottom Fine Sander
		0.12		Bottom Fine Sander
				Comparison of Face/Core available, also PM, PM10.
				Comparison of Face/Core available, also PM, PM10.
				Comparison of Face/Core available, also PM, PM10.
				Comparison of Face/Core available, also PM, PM10.

PARTICLEBOARD - PARTICULATE MATTER (PM) TABLE, page 3a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
166-100192A	1D166	1	PM	M5	OUT		0.117	35.64	2.21
166-100192A	1D166	2	PM	M5	OUT		0.105	34.17	2.46
166-100192A	1D166	3	PM	M5	OUT		0.148	47.15	3.42
166-100192B	1D166	1	PM	M5	OUT		0.081	27.16	2.56
166-100192B	1D166	2	PM	M5	OUT		0.093	29.55	2.93
166-100192B	1D166	3	PM	M5	OUT		0.063	20.81	2.51
166-100292A	5D166	1	PM	M5	OUT		0.122	16.56	2.15
166-100292A	5D166	2	PM	M5	OUT		0.083	11.64	1.05
166-100292A	5D166	3	PM	M5	OUT		0.089	12.65	1.25
166-100692A	2D166	1	PM	M5	OUT		0.43	55.77	6.56
166-100692A	2D166	2	PM	M5	OUT		0.426	57.32	6.44
166-100692B	2D166	1	PM	M5	OUT		0.252	32.64	3.67
166-100692B	2D166	2	PM	M5	OUT		0.283	35.58	3.36
167-061988A	3D167	1	PM	M5	OUT		0.076	22.94	2.256
167-061988B	3D167	1	PM	M5	OUT		0.034	10.08	0.994
167-062288A	1D167	1	PM	M5	OUT		0.028	6.3	0.584
167-062288A	1D167	2	PM	M5	OUT		0.033	7.64	0.72
167-062288A	1D167	3	PM	M5	OUT		0.022	5.22	0.491
167-062288B	2D167	1	PM	M5	OUT		0.029	6.29	0.668
167-062288B	2D167	2	PM	M5	OUT		0.038	8.04	0.859
167-062288B	2D167	3	PM	M5	OUT		0.036	7.74	0.831
167-082189A	3D167	1	PM	M5	OUT		0.049	13.1	1.46
167-082189A	3D167	2	PM	M5	OUT		0.043	12.2	1.36
167-082189A	3D167	3	PM	M5	OUT		0.049	13.7	1.49
167-082389A	1D167	1	PM	M5	OUT		0.061	13.44	1.529
167-082389A	1D167	2	PM	M5	OUT		0.047	10.66	1.191
167-082389A	1D167	3	PM	M5	OUT		0.042	9.48	1.057
167-082589A	2D167	1	PM	M5	OUT		0.086	17.69	2.781
167-082589A	2D167	2	PM	M5	OUT		0.084	17.04	2.667
167-091890A	4D167	1	PM	M5	OUT		0.01	2.84	0.25
167-091890A	4D167	2	PM	M5	OUT		0.01	2.76	0.24
167-091890A	4D167	3	PM	M5	OUT		0.006	1.9	0.17
167-091890A	4D167	4	PM	M5	OUT		0.007	1.96	0.18
167-091990A	4D167	1	PM	M5	OUT		0.002	0.58	0.06
167-091990A	4D167	2	PM	M5	OUT		0.006	1.99	0.25
167-100490A	5D167	1	PM	M5	OUT		0.024	6.03	0.43
167-100490A	5D167	2	PM	M5	OUT		0.02	4.97	0.35
167-100490A	5D167	3	PM	M5	OUT		0.015	3.85	0.32
167-100490A	5D167	4	PM	M5	OUT		0.035	7.59	0.5
167-100588A	3D167	1	PM	M5	OUT		0.136	34.23	3.21
167-100588A	3D167	2	PM	M5	OUT		0.11	28.22	3.07
167-100588A	3D167	3	PM	M5	OUT		0.076	21.62	2.3
167-102090A	4D167	1	PM	M5	OUT		0.008	2.08	0.177

PARTICLEBOARD - PARTICULATE MATTER (PM) TABLE, page 3b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Comparison of sanderdust and natural gas available.
				Comparison of sanderdust and natural gas available.

PARTICLEBOARD - PARTICULATE MATTER (PM) TABLE, page 4a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
167-102090A	4D167	2	PM	M5	OUT		0.007	2.09	0.172
167-102090A	4D167	3	PM	M5	OUT		0.009	2.64	0.226
167-102090B	4D167	1	PM	M5	OUT		0.009	2.69	0.235
167-102090B	4D167	2	PM	M5	OUT		0.007	2.13	0.192
167-102090B	4D167	3	PM	M5	OUT		0.007	2.14	0.201
167-102288A	3D167	1	PM	M5	IN		0.094	28.01	2.65
167-102288A	3D167	2	PM	M5	IN		0.075	21.03	1.93
167-102288B	3D167	1	PM	M5	IN		0.187	54.33	5.17
167-102390A	5D167	1	PM	M5	OUT		0.007	2.14	0.19
167-102390A	5D167	2	PM	M5	OUT		0.008	2.16	0.19
167-102390A	5D167	3	PM	M5	OUT		0.01	2.57	0.23
167-102588A	3D167	1	PM	M5	OUT		0.14	39.6	3.8
167-102588A	3D167	2	PM	M5	OUT		0.141	39.4	3.86
182-090689A	1D182	1	PM	OD7	OUT		0.016	3.73	0.19
182-090689A	1D182	2	PM	OD7	OUT		0.019	4.29	0.22
182-090689A	1D182	3	PM	OD7	OUT		0.009	1.64	0.084
182-090689B	1D182	1	PM	OD7	IN		0.085	19.6	1.01
182-090689B	1D182	2	PM	OD7	IN		0.09	20	1.03
182-090689B	1D182	3	PM	OD7	IN		0.091	19.8	1.02
182-090689C	1D182	1	PM	OD7	IN		0.059	10.7	0.55
182-090689C	1D182	2	PM	OD7	IN		0.058	10.5	0.54
182-090689C	1D182	3	PM	OD7	IN		0.043	8.19	0.42
182-090889A	2D182	1	PM	OD7	OUT		0.145	4.09	0.21
182-090889A	2D182	2	PM	OD7	OUT		0.219	6.14	0.315
182-090889A	2D182	3	PM	OD7	OUT		0.097	2.72	0.14
182-100589A	1D182	1	PM	OD7	OUT		0.006	1.35	0.069
182-100589A	1D182	2	PM	OD7	OUT		0.004	0.94	0.048
182-100589A	1D182	3	PM	OD7	OUT		0.006	1.35	0.071
182-100589B	1D182	1	PM	OD7	IN		0.088	16.1	0.83
182-100589B	1D182	2	PM	OD7	IN		0.071	12.8	0.66
182-100589B	1D182	3	PM	OD7	IN		0.058	10.9	0.56
202-071393A	1D202	1	PM	OD8	OUT		0.04	11.2	0.93
202-071393A	1D202	2	PM	OD8	OUT		0.04	10.8	0.89
202-071393B	2D202	1	PM	OD8	OUT		0.07	16.9	1.66
202-071393B	2D202	2	PM	OD8	OUT		0.07	17.4	1.71
202-071393C	1M202	1	PM	OD8	OUT		0.03	1.6	0.12
202-071393C	1M202	2	PM	OD8	OUT		0.04	1.8	0.14
202-071393D	2M202	1	PM	OD8	OUT		0.04	15.6	1.42
202-071393D	2M202	2	PM	OD8	OUT		0.04	15.3	1.39
202-081788A	XD202	1	PM	OD7	OUT			3.6	0.16

PARTICLEBOARD - PARTICULATE MATTER (PM) TABLE, page 4b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Comparison of sanderdust and natural gas available.
				Comparison of sanderdust and natural gas available.
				Comparison of sanderdust and natural gas available.
				Particle size distribution available for quench inlet (E-tube inlet) and E-tube outlet (in report).
				Particle size distribution available for quench inlet (E-tube inlet) and E-tube outlet (in report).
				Particle size distribution available for quench inlet (E-tube inlet) and E-tube outlet (in report).

PARTICLEBOARD - PARTICULATE MATTER (PM) TABLE, page 5a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
202-081788A	XD202	2	PM	OD7	OUT			2.93	0.13
202-081788A	XD202	3	PM	OD7	OUT			2.89	0.13
228-091592A	3D228	1	PM	M5	IN		0.107	29.5	2.25
228-091592A	3D228	2	PM	M5	IN		0.089	24.4	1.96
228-091592A	3D228	3	PM	M5	IN		0.149	40.1	3.38
228-091692A	1D228	1	PM	M5	IN		0.0492	20.1	2.09
228-091692A	1D228	2	PM	M5	IN		0.0415	16.5	1.71
228-091692A	1D228	3	PM	M5	IN		0.0487	19.47	2.24
228-091692D	1D228	2	PM	M5	OUT			2.58	0.268
228-091692D	1D228	3	PM	M5	OUT			2.3	0.28
228-091692F	3D228	1	PM	M5	OUT			3.7	0.282
228-091692F	3D228	2	PM	M5	OUT			33.9	2.73
228-091992J	1P228	1	PM	M5	OUT		0.488		
228-091992J	1P228	2	PM	M5	OUT		0.724		
228-091992J	1P228	3	PM	M5	OUT		0.235		
228-092392A	1C228	1	PM	M5	OUT			0.186	

PARTICLEBOARD - PARTICULATE MATTER (PM) TABLE, page 5b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Checked and is "OK".
				Checked and is "OK".
		0.0339		Press and cooler emissions are separate, not summed.
		0.0377		Press and cooler emissions are separate, not summed.
		0.0172		Press and cooler emissions are separate, not summed.
		0.014		Press and cooler emissions are separate, not summed.

PARTICLEBOARD - PM + CPM (TOTAL PARTICULATE) TABLE, page 1a of 3(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
030-011993C	1D030	1	PM&CPM	M5/202	OUT				
030-011993C	1D030	2	PM&CPM	M5/202	OUT		0.0725	20.9	1.2
030-011993C	1D030	3	PM&CPM	M5/202	OUT		0.0699	19.8	1.21
030-012093C	2D030	1	PM&CPM	M5/202	OUT		0.0703	20.3	1.9
030-012093C	2D030	2	PM&CPM	M5/202	OUT		0.104	30.4	2.81
030-012093C	2D030	3	PM&CPM	M5/202	OUT		0.159	46.2	6.64
045-041593A	1D045	1	PM&CPM	M5	OUT		0.3215	100.4	6.78
045-041593A	1D045	2	PM&CPM	M5	OUT		0.2312	67.34	3.85
045-041593B	2D045	1	PM&CPM	M5	OUT		0.7758	223.2	10.71
045-041593B	2D045	2	PM&CPM	M5	OUT		1.12	310.6	12.18
156-022087A	XD156	1	PM&CPM	OD7	OUT		0.061	5.86	0.248
156-022087A	XD156	2	PM&CPM	OD7	OUT		0.069	6.22	0.264
156-032191A	XD156	1	PM&CPM	OD7	OUT		0.111	3.7	0.132
156-032191A	XD156	2	PM&CPM	OD7	OUT		0.209	6.1	0.21
156-032191A	XD156	3	PM&CPM	OD7	OUT		0.164	4	0.143
156-051090A	XD156	1	PM&CPM	OD7	OUT		0.06	5.5	0.184
156-051090A	XD156	2	PM&CPM	OD7	OUT		0.06	5.2	0.177
156-051090A	XD156	3	PM&CPM	OD7	OUT		0.04	3.7	0.123
156-061688A	XD156	1	PM&CPM	OD7	OUT		0.122	9.57	0.38
156-061688A	XD156	2	PM&CPM	OD7	OUT		0.078	7.99	0.317
156-061688A	XD156	3	PM&CPM	OD7	OUT		0.067	5.26	0.209
156-062592A	XD156	1	PM&CPM	OD7	OUT		0.043	4.83	0.144
156-062592A	XD156	2	PM&CPM	OD7	OUT		0.044	4.77	0.142
156-062592A	XD156	3	PM&CPM	OD7	OUT		0.059	5.67	0.169
156-090789A	XD156	1	PM&CPM	OD7	OUT		0.066	7.24	0.243
156-090789A	XD156	2	PM&CPM	OD7	OUT		0.061	6.6	0.221
166-092892A	3D166	1	PM&CPM	M5	OUT		0.043	12.5	
166-092892A	3D166	2	PM&CPM	M5	OUT		0.036	10.4	1.7
166-092892A	3D166	3	PM&CPM	M5	OUT		0.032	9.2	1.56
166-092992A	4D166	1	PM&CPM	M5	OUT		0.053	13.8	1.19
166-092992A	4D166	2	PM&CPM	M5	OUT		0.031	8.4	0.87
166-092992A	4D166	3	PM&CPM	M5	OUT		0.032	8.6	0.89
166-100192A	1D166	1	PM&CPM	M5	OUT		0.135	41.2	2.56
166-100192A	1D166	2	PM&CPM	M5	OUT		0.121	39.5	2.84
166-100192A	1D166	3	PM&CPM	M5	OUT		0.163	53.1	3.85
166-100192B	1D166	1	PM&CPM	M5	OUT		0.095	31.8	3
166-100192B	1D166	2	PM&CPM	M5	OUT		0.111	35.3	3.5
166-100192B	1D166	3	PM&CPM	M5	OUT		0.077	25.5	3.07
166-100292A	5D166	1	PM&CPM	M5	OUT		0.132	17.9	2.32
166-100292A	5D166	2	PM&CPM	M5	OUT		0.092	12.9	1.16
166-100292A	5D166	3	PM&CPM	M5	OUT		0.096	13.7	1.36
166-100692A	2D166	1	PM&CPM	M5	OUT		0.436	56.5	6.65
166-100692A	2D166	2	PM&CPM	M5	OUT		0.43	57.9	6.51

PARTICLEBOARD - PM + CPM (TOTAL PARTICULATE) TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Outlier
				Report provided pollutant emissions as lb/MSF 3/4.
				Report provided pollutant emissions as lb/MSF 3/4.
				Report provided pollutant emissions as lb/MSF 3/4.
				Report provided pollutant emissions as lb/MSF 3/4.
				Report provided pollutant emissions as lb/MSF 3/4.
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				Report provided pollutant emissions as lb/MSF 3/4.
				Report provided pollutant emissions as lb/MSF 3/4.
				Report provided pollutant emissions as lb/MSF 3/4.
				Report provided pollutant emissions as lb/MSF 3/4.
				Report provided pollutant emissions as lb/MSF 3/4.
				Report provided pollutant emissions as lb/MSF 3/4.

PARTICLEBOARD - PM + CPM (TOTAL PARTICULATE) TABLE, page 2a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
166-100692B	2D166	1	PM&CPM	M5	OUT		0.262	34	3.82
166-100692B	2D166	2	PM&CPM	M5	OUT		0.288	36.2	3.42
166-100892A	1P166	1	PM&CPM	OD8	OUT		0.0055	6.5	
166-100892B	2P166	1	PM&CPM	OD8	OUT			6	
167-061988A	3D167	1	PM&CPM	M5	OUT		0.085	24.18	2.38
167-061988B	3D167	1	PM&CPM	M5	OUT		0.039	11.59	1.14
167-062288A	1D167	1	PM&CPM	M5	OUT		0.03	6.71	0.622
167-062288A	1D167	2	PM&CPM	M5	OUT		0.034	7.95	0.749
167-062288A	1D167	3	PM&CPM	M5	OUT		0.023	5.3	0.499
167-062288B	2D167	1	PM&CPM	M5	OUT		0.03	6.43	0.683
167-062288B	2D167	2	PM&CPM	M5	OUT		0.039	8.3	0.887
167-062288B	2D167	3	PM&CPM	M5	OUT		0.037	7.93	0.852
167-082189A	3D167	1	PM&CPM	M5	OUT		0.051	13.7	1.52
167-082189A	3D167	2	PM&CPM	M5	OUT		0.045	12.6	1.4
167-082189A	3D167	3	PM&CPM	M5	OUT		0.05	14	1.52
167-082389A	1D167	1	PM&CPM	M5	OUT		0.062	13.66	1.55
167-082389A	1D167	2	PM&CPM	M5	OUT		0.048	10.8	1.21
167-082389A	1D167	3	PM&CPM	M5	OUT		0.043	9.72	1.11
167-082589A	2D167	1	PM&CPM	M5	OUT		0.09	18.45	2.9
167-082589A	2D167	2	PM&CPM	M5	OUT		0.088	17.94	2.81
167-091890A	4D167	1	PM&CPM	M5	OUT		0.015	4.36	0.386
167-091890A	4D167	2	PM&CPM	M5	OUT		0.015	4.44	0.389
167-091890A	4D167	3	PM&CPM	M5	OUT		0.012	3.46	0.304
167-091890A	4D167	4	PM&CPM	M5	OUT		0.011	3.28	0.298
167-091990A	4D167	1	PM&CPM	M5	OUT		0.004	1.08	0.105
167-091990A	4D167	2	PM&CPM	M5	OUT		0.007	2.34	0.289
167-100490A	5D167	1	PM&CPM	M5	OUT		0.037	9.44	0.67
167-100490A	5D167	2	PM&CPM	M5	OUT		0.038	9.47	0.672
167-100490A	5D167	3	PM&CPM	M5	OUT		0.023	5.98	0.49
167-100490A	5D167	4	PM&CPM	M5	OUT		0.058	12.51	0.823
167-100588A	3D167	1	PM&CPM	M5	OUT		0.148	37.19	3.49
167-100588A	3D167	2	PM&CPM	M5	OUT		0.118	30.1	3.27
167-100588A	3D167	3	PM&CPM	M5	OUT		0.08	22.95	2.44
167-102090A	4D167	1	PM&CPM	M5	OUT		0.012	3.35	0.28
167-102090A	4D167	2	PM&CPM	M5	OUT		0.011	3.12	0.26
167-102090A	4D167	3	PM&CPM	M5	OUT		0.012	3.69	0.32
167-102090B	4D167	1	PM&CPM	M5	OUT		0.013	3.61	0.32
167-102090B	4D167	2	PM&CPM	M5	OUT		0.01	2.85	0.26
167-102090B	4D167	3	PM&CPM	M5	OUT		0.01	3.92	0.37
167-102390A	5D167	1	PM&CPM	M5	OUT		0.01	2.92	0.26
167-102390A	5D167	2	PM&CPM	M5	OUT		0.017	4.6	0.397
167-102390A	5D167	3	PM&CPM	M5	OUT		0.021	5.61	0.505
167-102588A	3D167	1	PM&CPM	M5	OUT		0.149	42.1	4.04

PARTICLEBOARD - PM + CPM (TOTAL PARTICULATE) TABLE, page 2b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
		0.93		Average of 1-3 runs, not simultaneous.
		0.3		Average of 2 runs.

PARTICLEBOARD - PM + CPM (TOTAL PARTICULATE) TABLE, page 3a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
167-102588A	3D167	2	PM&CPM	M5	OUT		0.163	45.6	4.47
182-090689A	1D182	1	PM&CPM	OD7	OUT		0.02	4.67	0.239
182-090689A	1D182	2	PM&CPM	OD7	OUT		0.025	5.65	0.29
182-090689A	1D182	3	PM&CPM	OD7	OUT		0.012	2.19	0.112
182-090689B	1D182	1	PM&CPM	OD7	IN		0.101	23.3	1.2
182-090689B	1D182	2	PM&CPM	OD7	IN		0.107	23.8	1.22
182-090689B	1D182	3	PM&CPM	OD7	IN		0.108	23.8	1.22
182-090689C	1D182	1	PM&CPM	OD7	IN		0.094	17.2	0.884
182-090689C	1D182	2	PM&CPM	OD7	IN		0.096	17.1	0.879
182-090689C	1D182	3	PM&CPM	OD7	IN		0.093	17.7	0.909
182-090889A	2D182	1	PM&CPM	OD7	OUT		0.157	4.43	0.227
182-090889A	2D182	2	PM&CPM	OD7	OUT		0.227	6.39	0.328
182-090889A	2D182	3	PM&CPM	OD7	OUT		0.108	3.03	0.155
182-100589A	1D182	1	PM&CPM	OD7	OUT		0.011	2.47	0.127
182-100589A	1D182	2	PM&CPM	OD7	OUT		0.006	1.4	0.072
182-100589A	1D182	3	PM&CPM	OD7	OUT		0.009	2.07	0.106
182-100589B	1D182	1	PM&CPM	OD7	IN		0.099	18.1	0.929
182-100589B	1D182	2	PM&CPM	OD7	IN		0.077	13.9	0.714
182-100589B	1D182	3	PM&CPM	OD7	IN		0.065	12.2	0.626
202-081788A	XD202	1	PM&CPM	OD7	OUT		0.013	5.19	0.229
202-081788A	XD202	2	PM&CPM	OD7	OUT		0.012	4.67	0.206
202-081788A	XD202	3	PM&CPM	OD7	OUT		0.01	3.94	0.174
228-091592A	3D228	1	PM&CPM	M5/202	IN		0.187	51.4	3.91
228-091592A	3D228	2	PM&CPM	M5/202	IN		0.177	48.5	3.89
228-091592A	3D228	3	PM&CPM	M5/202	IN		0.224	60.2	5.08
228-091692A	1D228	1	PM&CPM	M5/202	IN		0.0603	24.7	2.56
228-091692A	1D228	2	PM&CPM	M5/202	IN		0.0543	21.6	2.24
228-091692A	1D228	3	PM&CPM	M5/202	IN		0.0701	28	3.21

PARTICLEBOARD - PM + CPM (TOTAL PARTICULATE) TABLE, page 3b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments

PARTICLEBOARD - PM_{10} TABLE, page 1a of 1(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
030-011993D	1D030	1	PM10	M201A	OUT		1.05E-02	2.98	0.196
030-011993D	1D030	2	PM10	M201A	OUT		1.14E-02	2.98	0.178
030-011993D	1D030	3	PM10	M201A	OUT		9.35E-03	2.86	0.177
030-012093D	2D030	1	PM10	M201A	OUT		3.72E-02	9.62	0.687
030-012093D	2D030	2	PM10	M201A	OUT		1.27E-02	2.92	0.436
030-012093D	2D030	3	PM10	M201A	OUT		3.50E-02	10.3	1.28
039-082791A	1D039	1	PM10	M201A	OUT		7.41E-03	2.36	0.0518
039-082791A	1D039	2	PM10	M201A	OUT		7.24E-03	2.29	0.0502
039-082791A	1D039	3	PM10	M201A	OUT		6.91E-03	2.2	0.0487
045-041593A	1D045	1	PM10	M201A/202	OUT	0.0367		11.45	0.774
045-041593A	1D045	2	PM10	M201A/202	OUT	0.0321		9.34	0.534
045-041593B	2D045	1	PM10	M201A/202	OUT	0.0624		17.95	0.864
045-041593B	2D045	2	PM10	M201A/202	OUT	0.1301		36.07	1.416
228-091692D	1D228	1	PM10	M201A	OUT		1.49E-03	0.609	0.0632
228-091692D	1D228	2	PM10	M201A	OUT		6.27E-03	2.68	0.278
228-091692D	1D228	3	PM10	M201A	OUT		3.05E-03	1.22	0.148
228-091692F	3D228	1	PM10	M201A	OUT		2.78E-02	9.07	0.691
228-091692F	3D228	2	PM10	M201A	OUT		1.54E-02	5.29	0.423
228-091692F	3D228	3	PM10	M201A	OUT			9.58	0.808
228-091992J	1P228	1	PM10	M201A	OUT		4.45E-04	0.158	
228-091992J	1P228	2	PM10	M201A	OUT		8.22E-04	0.313	
228-091992J	1P228	3	PM10	M201A	OUT		6.19E-04	0.275	
228-092392A	1C228	1	PM10	M201A	OUT		1.60E-05	0.0444	

PARTICLEBOARD - PM_{10} TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				<PM10 % 12.7
				<PM10 % 20.8
				<PM10 % 15.6
				<PM10 % 23.0
				<PM10 % 14.2
				<PM10 % 31.6
				Comparison PM/PM10 & Face/Core available.
				Comparison PM/PM10 & Face/Core available.
				Comparison PM/PM10 & Face/Core available.
				Comparison PM/PM10 & Face/Core available.
		0.011		Press and cooler emissions are separate, not summed.
		0.0163		Press and cooler emissions are separate, not summed.
		0.0201		Press and cooler emissions are separate, not summed.
		3.35E-03		Press and cooler emissions are separate, not summed.

PARTICLEBOARD - PM_{10} + CPM TABLE, page 1a of 1(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
045-041593A	1D045	1	PM10&CPM	M201A/202	OUT		0.0676	21.1	1.427
045-041593A	1D045	2	PM10&CPM	M201A/202	OUT		0.0538	15.68	0.897
045-041593B	2D045	1	PM10&CPM	M201A/202	OUT		0.0901	25.93	1.243
045-041593B	2D045	2	PM10&CPM	M201A/202	OUT		0.1581	43.84	1.718
228-091692D	1D228	2	PM10&CPM	M201A/202	OUT		0.014	5.99	0.621
228-091692D	1D228	3	PM10&CPM	M201A/202	OUT		0.00801	3.2	0.389
228-091692F	3D228	1	PM10&CPM	M201A/202	OUT		0.0881	28.7	2.19
228-091692F	3D228	2	PM10&CPM	M201A/202	OUT		0.0664	22.9	1.84
228-091992J	1P228	1	PM10&CPM	M201A/202	OUT		0.0033	1.35	
228-091992J	1P228	2	PM10&CPM	M201A/202	OUT		0.00306	1.23	
228-091992J	1P228	3	PM10&CPM	M201A/202	OUT		0.00246	1.004	
228-092392A	1C228	1	PM10&CPM	M201A/202	OUT	6.13E-04	6.13E-04	0.1666	

PARTICLEBOARD - PM_{10} + CPM TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Comparison PM/PM10 & Face/Core available.
				Comparison PM/PM10 & Face/Core available.
				Comparison PM/PM10 & Face/Core available.
		0.0938		Press and cooler emissions are separate, not summed.
		0.0644		Press and cooler emissions are separate, not summed.
		0.0733		Press and cooler emissions are separate, not summed.
		0.01258		Press and cooler emissions are separate, not summed.

PARTICLEBOARD - VOC (as Carbon) TABLE, page 1a of 4(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
030-011993B	1D030	1	VOC	M25A	OUT	17.1		1.02	0.0676
030-011993B	1D030	2	VOC	M25A	OUT	3.75		0.236	0.0159
030-011993B	1D030	3	VOC	M25A	OUT	4.47		0.284	0.018
030-012093B	2D030	1	VOC	M25A	OUT	149		8.82	0.978
030-012093B	2D030	2	VOC	M25A	OUT	54.6		3.49	0.574
030-012093B	2D030	3	VOC	M25A	OUT	24.6		1.42	0.191
030-012193C	1P030	1	VOC	M25A	OUT	63.6		16.77	
030-012193C	1P030	2	VOC	M25A	OUT	57		13.08	
030-012193C	1P030	3	VOC	M25A	OUT	98.7		22.93	
039-102692A	1D039	1	VOC	M25A	OUT			32.15	0.6411
039-102692A	1D039	2	VOC	M25A	OUT			34.94	0.7148
039-102692A	1D039	3	VOC	M25A	OUT			38.86	0.7686
039-102692B	XD039	1	VOC	M25A	OUT			22.01	1.071
039-102692B	XD039	2	VOC	M25A	OUT			30.03	1.504
039-102692B	XD039	3	VOC	M25A	OUT			26.18	1.25
039-102692C	YD039	1	VOC	M25A	OUT			23.07	1.197
039-102692C	YD039	2	VOC	M25A	OUT			16.94	0.879
039-102692C	YD039	3	VOC	M25A	OUT			20.45	1.061
039-102692D	5D039	1	VOC	M25A	OUT			11.95	1.156
039-102692D	5D039	2	VOC	M25A	OUT			12.35	1.194
039-102692D	5D039	3	VOC	M25A	OUT			14.15	1.368
039-102692E	1P039	1	VOC	M25A	OUT			19.26	
039-102692E	1P039	2	VOC	M25A	OUT			21.22	
039-102692E	1P039	3	VOC	M25A	OUT			20.16	
045-041593A	1D045	1	VOC	M25A	OUT	195.3		14.82	1.001
045-041593A	1D045	2	VOC	M25A	OUT	191.4		13.65	0.78
045-041593B	2D045	1	VOC	M25A	OUT	287.2		19.96	0.958
045-041593B	2D045	2	VOC	M25A	OUT	279.8		18.36	0.72
166-092892A	3D166	1	VOC	M25M	OUT	48.9		3.08	
166-092892A	3D166	2	VOC	M25M	OUT	21		1.32	0.22
166-092892A	3D166	3	VOC	M25M	OUT	38.1		2.43	0.41
166-092992A	4D166	1	VOC	M25M	OUT	43.8		2.49	0.21
166-092992A	4D166	2	VOC	M25M	OUT	49.5		2.89	0.3
166-092992A	4D166	3	VOC	M25M	OUT	29.1		1.7	0.18
166-100192A	1D166	1	VOC	M25A	OUT	102		6.77	0.42

PARTICLEBOARD - VOC (as Carbon) TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
		1.016		
		1.246		
		1.442		
				Comparison of VOC available; pre dryer and final dryers.
				Comparison of VOC available; pre dryer and final dryers.
				Comparison of VOC available; pre dryer and final dryers.
				Comparison of VOC available; pre dryer and final dryers.
				Comparison of VOC available; pre dryer and final dryers.
				Comparison of VOC available; pre dryer and final dryers.
				Comparison of VOC available; pre dryer and final dryers.
				Comparison of VOC available; pre dryer and final dryers.
				Comparison of VOC available; pre dryer and final dryers.
				Comparison of VOC available; pre dryer and final dryers.
		0.55		
		0.61		
		0.58		
				Comparison of Face/Core dryers available.
				Comparison of Face/Core dryers available.
				Comparison of Face/Core dryers available.
				Comparison of Face/Core dryers available.
				Unusual VOC method, modified M25A, methane measurements available in report.
				Unusual VOC method, modified M25A, methane measurements available in report.
				Unusual VOC method, modified M25A, methane measurements available in report.
				Unusual VOC method, modified M25A, methane measurements available in report.
				Unusual VOC method, modified M25A, methane measurements available in report.
				Unusual VOC method, modified M25A, methane measurements available in report.
				Methane measurements available in report, also tested with another VOC method similar to M25.

PARTICLEBOARD - VOC (as Carbon) TABLE, page 2a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
166-100192A	1D166	1	VOC	M25M	OUT	43.8		2.91	0.18
166-100192A	1D166	2	VOC	M25A	OUT	84		5.98	0.43
166-100192A	1D166	2	VOC	M25M	OUT	52.2		3.72	0.27
166-100192A	1D166	3	VOC	M25A	OUT	93		6.62	0.48
166-100192A	1D166	3	VOC	M25M	OUT	53.1		3.78	0.27
166-100192B	1D166	1	VOC	M25A	OUT	75		5.46	0.5151
166-100192B	1D166	1	VOC	M25M	OUT	35.1		2.56	0.24
166-100192B	1D166	2	VOC	M25A	OUT	75		5.22	0.52
166-100192B	1D166	2	VOC	M25M	OUT	32.1		2.24	0.22
166-100192B	1D166	3	VOC	M25A	OUT	90		6.5	0.78
166-100192B	1D166	3	VOC	M25M	OUT	23.1		1.67	0.2
166-100292A	5D166	1	VOC	M25M	OUT	77.4		2.29	0.3
166-100292A	5D166	2	VOC	M25M	OUT	90.3		2.76	0.25
166-100292A	5D166	3	VOC	M25M	OUT	126.9		3.95	0.39
166-100692A	2D166	1	VOC	M25M	OUT	22.8		0.64	0.08
166-100692A	2D166	2	VOC	M25M	OUT	16.5		0.48	0.05
166-100692B	2D166	1	VOC	M25M	OUT	11.1		0.31	0.03
166-100692B	2D166	2	VOC	M25M	OUT	18		0.49	0.046
166-100892A	1P166	1	VOC	M25A	OUT	17.2		5.2	
166-100892B	2P166	1	VOC	M25A	OUT	31.5		9.7	
167-082189A	3D167	1	VOC	M25A	OUT	11.8		0.7	0.08
167-082189A	3D167	2	VOC	M25A	OUT	4.9		0.3	0.03
167-082189A	3D167	3	VOC	M25A	OUT	5.9		0.4	0.04
167-091890A	4D167	1	VOC	M25A	OUT	30.7		1.9	0.17
167-091890A	4D167	2	VOC	M25A	OUT	31.4		2	0.18
167-091890A	4D167	3	VOC	M25A	OUT	34.4		2.3	0.2
167-091890A	4D167	4	VOC	M25A	OUT	23.9		1.6	0.15
167-091990A	4D167	1	VOC	M25A	OUT	9		0.6	0.06

PARTICLEBOARD - VOC (as Carbon) TABLE, page 2b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Unusual VOC method, highly modified M25A, methane measurements available in report.
				Methane measurements available in report, also tested with another VOC method similar to M25.
				Unusual VOC measurement method, modified M25A, methane measurements available in report.
				Methane measurements available in report, also tested with another VOC method similar to M25.
				Unusual VOC measurement method, modified M25A, methane measurements available in report.
				Unusual VOC measurement method, modified M25A, methane measurements available in report.
				Unusual VOC measurement method, modified M25A, methane measurements available in report.
				Unusual VOC measurement method, modified M25A, methane measurements available in report.
				Unusual VOC measurement method, modified M25A, methane measurements available in report.
				Unusual VOC measurement method, modified M25A, methane measurements available in report.
				Unusual VOC measurement method, modified M25A, methane measurements available in report.
				Unusual VOC measurement method, modified M25A, methane measurements available in report.
				Unusual VOC measurement method, modified M25A, methane measurements available in report.
				Unusual VOC measurement method, modified M25A, methane measurements available in report.
				Unusual VOC measurement method, modified M25A, methane measurements available in report.
		0.87		Average of more than one run.
		0.49		Average of more than one run.
				Comparison of natural gas and sanderdust hardwood VOC available.
				Comparison of natural gas and sanderdust hardwood VOC available.
				Comparison of natural gas and sanderdust hardwood VOC available.
				Comparison of natural gas and sanderdust hardwood VOC available.
				Comparison of natural gas and sanderdust available.

PARTICLEBOARD - VOC (as Carbon) TABLE, page 3a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
167-091990A	4D167	2	VOC	M25A	OUT	9		0.6	0.07
167-100490A	5D167	1	VOC	M25A	OUT	12.4		0.7	0.05
167-100490A	5D167	2	VOC	M25A	OUT	13		0.7	0.05
167-100490A	5D167	3	VOC	M25A	OUT	9.8		0.6	0.05
167-100490A	5D167	4	VOC	M25A	OUT	12.5		0.6	0.04
167-102090A	4D167	1	VOC	M25A	OUT	63		3.88	0.331
167-102090A	4D167	2	VOC	M25A	OUT	108		6.65	0.548
167-102090A	4D167	3	VOC	M25A	OUT	159		10.4	0.89
167-102090B	4D167	1	VOC	M25A	OUT	87		5.4	0.472
167-102090B	4D167	2	VOC	M25A	OUT	87		5.45	0.492
167-102090B	4D167	3	VOC	M25A	OUT	126		7.89	0.742
167-102090D	1C167	1	VOC	M25A	OUT	6		0.12	
167-102190A	1Z167	1	VOC	M25A	OUT	80.4		0.066	
167-102190B	1P167	1	VOC	M25A	OUT	30.5		1.44	
167-102588B	1P167	1	VOC	M25	OUT	106.5		5.06	
167-102588B	1P167	2	VOC	M25	OUT	102.3		4.93	
167-102588B	1P167	3	VOC	M25	OUT	46		2.87	
167-102588C	1C167	1	VOC	M25	OUT	18		0.69	
167-102588C	1C167	2	VOC	M25	OUT	116.5		4.45	
167-102588C	1C167	3	VOC	M25	OUT	131		5.03	
202-071592C	XD202	1	VOC	M25A	OUT	342		26.1	1.37
202-071592C	XD202	2	VOC	M25A	OUT	387		29.6	1.55
202-071592C	XD202	3	VOC	M25A	OUT	330		26.7	1.4
202-071592D	1D202	1	VOC	M25A	OUT	84		4.34	0.34
202-071592D	1D202	2	VOC	M25A	OUT	54		2.8	0.22
202-071592D	1D202	3	VOC	M25A	OUT	60		3.36	0.26
202-071592E	2D202	1	VOC	M25A	OUT	201		10.8	0.95
202-071592E	2D202	2	VOC	M25A	OUT	237		12.85	1.13
202-071592E	2D202	3	VOC	M25A	OUT	204		11.13	0.98
228-091492A	3D228	1	VOC	M25A	IN	1308		81.3	7.31
228-091492A	3D228	2	VOC	M25A	IN	1263		75.4	5.84
228-091492A	3D228	3	VOC	M25A	IN	1842		108	8.37
228-091492B	3D228	1	VOC	M25A	OUT	810		56.7	4.32
228-091492B	3D228	2	VOC	M25A	OUT	984		72.8	5.84
228-091492B	3D228	3	VOC	M25A	OUT	1377		99.8	8.41
228-091692B	1D228	1	VOC	M25A	IN	151.8		11.6	1.2
228-091692B	1D228	2	VOC	M25A	IN	177.3		15.9	1.65
228-091692B	1D228	3	VOC	M25A	IN	84.9		7.36	0.845
228-091692C	1D228	1	VOC	M25A	OUT	125.7		11.8	1.22
228-091692C	1D228	2	VOC	M25A	OUT	119.4		10.9	1.13
228-091692C	1D228	3	VOC	M25A	OUT	71.1		6.58	0.683
228-091992K	1P228	1	VOC	M25A	OUT	100		10.6	
228-091992K	1P228	2	VOC	M25A	OUT	96		13.6	

PARTICLEBOARD - VOC (as Carbon) TABLE, page 3b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				Comparison of natural gas and sanderdust available.
				Comparison of natural gas and sanderdust available.
				Comparison of natural gas and sanderdust available.
				Comparison of natural gas and sanderdust available.
				Comparison of natural gas and sanderdust available.
				Comparison of natural gas and sanderdust available.
				Comparison of natural gas and sanderdust available.
		0.0119		From 3 test runs, concentrations are average, mass rates are sums.
		0.0093		From 3 test runs, concentrations are average, mass rates are sums.
		0.1466		From 3 test runs, concentrations are average, mass rates are sums.
		0.65		
		0.59		
		0.33		
		0.09		
		0.54		
		0.61		
		0.684		Press and cooler emissions are separate, not summed.
		0.708		Press and cooler emissions are separate, not summed.

PARTICLEBOARD - VOC (as Carbon) TABLE, page 4a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
228-091992K	1P228	3	VOC	M25A	OUT	117		14.8	
228-092292A	1C228	1	VOC	M25A	OUT	45		2.45	
228-092292A	1C228	2	VOC	M25A	OUT	36.9		2.147	

PARTICLEBOARD - VOC (as Carbon) TABLE, page 4b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
		1.08		Press and cooler emissions are separate, not summed.
		0.1719		Press and cooler emissions are separate, not summed.
		0.1456		Press and cooler emissions are separate, not summed.

APPENDIX B

MEDIUM DENSITY FIBERBOARD DATABASE

APPENDIX B

MDF DATABASE

TABLE OF CONTENTS

MDF - GENERAL INFORMATION TABLE, page 1a of 1(a)

Fac Code	Product	Wood Species 1	% Species 1	Wood Species 2	% Species 2	Wood Species 3	% Species 3	Raw Wood Mat'l 1	Raw Wood Mat'l 2	Raw Wood Mat'l 3
027	MDF	PINE SP	100					DCHP	TRIM	
093	MDF	HWOOD	100					LOG		
121	MDF	LARCH	53	UFIR	47			PSHAV	LOG	VENE
173	MDF	HWOOD	50	SWOOD	50			DCHP		
192	MDF	PINE SP	100					PSHAV	SAWD	CHP
227	MDF	SY PINE	100						SHAV	

MDF - REPORTS TABLE, page 1a of 4(a-c)

Test Code	Unit Code	Run	Production Rate (Units)	Production Rate (Units)	Fac Code	One to one?	Sam. Loc.	Stack Flow (dscfm)	Stack Temperature (F)	Stack Moisture (%)
027-051793A	1P027	1	13.80 MSF 3/4/hr		027	Y	OUT	19083.2	84	
027-051793A	1P027	2	13.80 MSF 3/4/hr		027	Y	OUT	18628.6	96	
027-051893A	1P027	1	14.39 MSF 3/4/hr		027	Y	OUT	50881	114	3
027-051893A	1P027	2	14.39 MSF 3/4/hr		027	Y	OUT	49688	114	4.1
027-052593A	1P027	1	15.19 MSF 3/4/hr		027	Y	OUT	45687	99	1.8
027-052593A	1P027	2	15.19 MSF 3/4/hr		027	Y	OUT	46616	99	2
093-063088A	1D093	1	15.21 ODTH		093	Y	OUT	94928	122	7.9
093-063088A	1D093	2	15.21 ODTH		093	Y	OUT	94928	122	7.9
093-063088A	1D093	3	15.21 ODTH		093	Y	OUT	94928	122	7.9
093-063088B	1P093	1	9.24 MSF 3/4/hr		093	N	OUT	68037	88	0.84
093-063088B	1P093	2	9.24 MSF 3/4/hr		093	N	OUT	68037	88	0.84
093-063088B	1P093	3	9.24 MSF 3/4/hr		093	N	OUT	68037	88	0.84
093-063088C	1U093	1	9.24 MSF 3/4/hr		093	N	OUT	63808	88	0.77
093-063088C	1U093	2	9.24 MSF 3/4/hr		093	N	OUT	63808	88	0.77
093-063088C	1U093	3	9.24 MSF 3/4/hr		093	N	OUT	63808	88	0.77
121-052688A	1D121	1	13.7 ODTH	31,322 wet lb/hr	121	N	OUT	82587	141	29
121-052688A	1D121	2	13.7 ODTH	31,322 wet lb/hr	121	N	OUT	82101	143	26
121-052688A	1D121	3	13.7 ODTH	31,322 wet lb/hr	121	N	OUT	83738	141	26
121-052788A	2D121	1	9.50 ODTH	20,925 wet lb/hr	121	N	OUT	82547	149	26
121-052788A	2D121	2	9.50 ODTH	20,925 wet lb/hr	121	N	OUT	84385	149	26
121-052788A	2D121	3	9.50 ODTH	20,925 wet lb/hr	121	N	OUT	81153	151	26
121-062889A	1D121	1	15.75 ODTH		121	N	OUT	42841	141	14
121-062889A	1D121	2	16.35 ODTH		121	N	OUT	45201	123	15
121-062889A	1D121	3	16.50 ODTH		121	N	OUT	44524	141	14
121-062989A	2D121	1	4.85 ODTH		121	N	OUT	43233	121	11
121-062989A	2D121	2	4.2 ODTH		121	N	OUT	42433	126	15
121-062989A	2D121	3	6.0 ODTH		121	N	OUT	45486	116	9
173-091092C	1C173	1	8.7 MSF 3/4/hr		173	N	OUT	30522	100	2.5
173-091092C	1C173	2	14.3 MSF 3/4/hr		173	N	OUT	31578	96	2.2
173-091092C	1C173	3	11.6 MSF 3/4/hr		173	N	OUT	30487	98	2.9
173-091092G	1P173	1	12.8 MSF 3/4/hr		173	N	OUT	23521	124	3.7
173-091092G	1P173	2	13.0 MSF 3/4/hr		173	N	OUT	23565	117	3.9
173-091092G	1P173	3	13.0 MSF 3/4/hr		173	N	OUT	24261	122	3.2

MDF - REPORTS TABLE, page 1b

Pollutant 1	Pollutant 2	Pollutant 3	Pollutant 4	Pollutant 5	Pollutant 6	Pollutant 7	Pollutant 8	Pollutant 9
PM&CPM								
PM&CPM								
PM&CPM	CO	NOX	VOC	PM10	PM	CPM		
PM&CPM	CO	NOX	VOC	PM10	PM	CPM		
FOR								
FOR								
FOR								
FOR								
FOR								
FOR								
FOR								
FOR								
FOR								
FOR								
PM								
PM								
PM								
PM								
PM								
PM								
PM	CPM	PM&CPM	PM10	PM10&CPM				
PM	CPM	PM&CPM	PM10	PM10&CPM				
PM	CPM	PM&CPM	PM10	PM10&CPM				
PM	CPM	PM&CPM	PM10	PM10&CPM				
PM	CPM	PM&CPM	PM10	PM10&CPM				
PM	CPM	PM&CPM	PM10	PM10&CPM				
PM10	PM10&CPM	PM						
PM10	PM10&CPM	PM						
PM10	PM10&CPM	PM						
PM10	PM	PM10&CPM						
PM10	PM	PM10&CPM						
PM10	PM	PM10&CPM						

MDF - REPORTS TABLE, page 1c

Test Code	Run	Comments
027-051793A	1	
027-051793A	2	
027-051893A	1	
027-051893A	2	
027-052593A	1	
027-052593A	2	
093-063088A	1	
093-063088A	2	
093-063088A	3	
093-063088B	1	Press and unloader emissions are separate, not summed.
093-063088B	2	Press and unloader emissions are separate, not summed.
093-063088B	3	Press and unloader emissions are separate, not summed.
093-063088C	1	Press and unloader emissions are separate, not summed.
093-063088C	2	Press and unloader emissions are separate, not summed.
093-063088C	3	Press and unloader emissions are separate, not summed.
121-052688A	1	Two cyclones added together; each dryer has 2 cyclones; not tested simultaneously.
121-052688A	2	Two cyclones added together; each dryer has 2 cyclones; not tested simultaneously.
121-052688A	3	Two cyclones added together; each dryer has 2 cyclones; not tested simultaneously.
121-052788A	1	Two cyclones added together; each dryer has 2 cyclones; not tested simultaneously.
121-052788A	2	Two cyclones added together; each dryer has 2 cyclones; not tested simultaneously.
121-052788A	3	Two cyclones added together; each dryer has 2 cyclones; not tested simultaneously.
121-062889A	1	Flow rates given are for 1 of 2 cyclones for dryer, thus total dryer flow is approximately double this figure. Mass emission rates are 2x single cyclone rate.
121-062889A	2	Flow rates given are for 1 of 2 cyclones for dryer, thus total dryer flow is approximately double this figure. Mass emission rates are 2x single cyclone rate.
121-062889A	3	Flow rates given are for 1 of 2 cyclones for dryer, thus total dryer flow is approximately double this figure. Mass emission rates are 2x single cyclone rate.
121-062989A	1	Flow rates given are for 1 of 2 cyclones for dryer, thus total dryer flow is approximately double this figure. Mass emission rates are 2x single cyclone rate.
121-062989A	2	Flow rates given are for 1 of 2 cyclones for dryer, thus total dryer flow is approximately double this figure. Mass emission rates are 2x single cyclone rate.
121-062989A	3	Flow rates given are for 1 of 2 cyclones for dryer, thus total dryer flow is approximately double this figure. Mass emission rates are 2x single cyclone rate.
173-091092C	1	
173-091092C	2	
173-091092C	3	
173-091092G	1	Stack flow represent 2 press vents only; temperatures and moistures are averages from 2 press stacks only; mass rates include building vents but not cooler vent.
173-091092G	2	Stack flow represent 2 press vents only; temperatures and moistures are averages from 2 press stacks only; mass rates include building vents but not cooler vent.
173-091092G	3	Stack flow represent 2 press vents only; temperatures and moistures are averages from 2 press stacks only; mass rates include building vents but not cooler vent.

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MDF - REPORTS TABLE, page 2a

Test Code	Unit Code	Run	Production Rate (Units)	Production Rate (Units)	Fac Code	One to one?	Sam. Loc.	Stack Flow (dscfm)	Stack Temperature (F)	Stack Moisture (%)
173-091192E	1C173	2	11.9 MSF 3/4/hr		173	N	OUT	29366	88	2.3
173-091192E	1C173	3	11.9 MSF 3/4/hr		173	N	OUT	26624	95	1.5
173-091192F	1C173	1	13.0 MSF 3/4/hr		173	N	OUT	28800		
173-091192F	1C173	2	11.9 MSF 3/4/hr		173	N	OUT	26600		
173-091192F	1C173	3	11.9 MSF 3/4/hr		173	N	OUT	26600		
173-091192G	1P173	1	13.0 MSF 3/4/hr		173	N	OUT	23593	119	3.9
173-091192G	1P173	2	11.9 MSF 3/4/hr		173	N	OUT	23550	113	2.6
173-091192G	1P173	3	11.9 MSF 3/4/hr		173	N	OUT	24183	117	2.4
173-091192H	1P173	1	13.0 MSF 3/4/hr		173	N	OUT	23600		
173-091192H	1P173	2	11.9 MSF 3/4/hr		173	N	OUT	24000		
173-091192H	1P173	3	11.9 MSF 3/4/hr		173	N	OUT	24000		
173-092592A	1D173	1	9.02 ODTH		173	Y	OUT	86866	160	10.3
173-092592A	1D173	2	9.41 ODTH		173	Y	OUT	94243	158	9.4
173-092592A	1D173	3	8.72 ODTH		173	Y	OUT	94885	156	10.7
173-092592B	1D173	1	7.66 ODTH		173	Y	OUT	101060	154	10.8
173-092592B	1D173	2	7.41 ODTH		173	Y	OUT	100152	148	9.8
173-092592B	1D173	3	8.54 ODTH		173	Y	OUT	96897	151	10.6
173-092592C	1D173	1	9.25 ODTH		173	Y	OUT	87000		
173-092592C	1D173	2	9.25 ODTH		173	Y	OUT	94900		
173-092592C	1D173	3	8.72 ODTH		173	N	OUT	96100		
173-092692A	1D173	1	9.02 ODTH		173	Y	OUT	86955	158	10.3
173-092692A	1D173	2	9.41 ODTH		173	Y	OUT	94900	155	8.8
173-092692A	1D173	3	8.72 ODTH		173	Y	OUT	96124	152	9.6
173-092692B	1D173	1	7.66 ODTH		173	Y	OUT	92617	154	9.6
173-092692B	1D173	2	7.41 ODTH		173	Y	OUT	88305	147	10.1
173-092692B	1D173	3	8.54 ODTH		173	Y	OUT	85351	150	10.7
192-020194B	1D192	1	14.46 ODTH		192	Y	OUT	109600	125	7
192-020194B	1D192	2	14.68 ODTH		192	Y	OUT	112800	125	6.1
192-020194B	1D192	3	15.10 ODTH		192	Y	OUT	111000	125	6
192-020194C	2D192	1	12.56 ODTH		192	Y	OUT	98400	138	7.3
192-020194C	2D192	2	12.40 ODTH		192	Y	OUT	97000	139	7.6
192-020194C	2D192	3	12.83 ODTH		192	Y	OUT	97600	139	7.1
192-050492A	1D192	1	14.97 ODTH		192	N	OUT	103467	139	7.6
192-050492A	1D192	2	15.19 ODTH		192	N	OUT	103369	133	7.7
192-050492A	1D192	3	14.90 ODTH		192	N	OUT	103786	133	7.5
192-050592B	1Z192	1	9,000 lb/hr		192	Y	OUT	66	210	95
192-050592C	2Z192	1	27,700 lb/hr		192	Y	OUT	27385	78	0.5

MDF - REPORTS TABLE, page 2b

Pollutant 1	Pollutant 2	Pollutant 3	Pollutant 4	Pollutant 5	Pollutant 6	Pollutant 7	Pollutant 8	Pollutant 9
ALD/KET	FOR							
ALD/KET	FOR							
VOC								
VOC								
VOC								
ALD/KET	FOR							
ALD/KET	FOR							
ALD/KET	FOR							
VOC								
VOC								
VOC								
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM	CPM	PM&CPM						
PM10								
PM10								
PM10								
VOC								
VOC								
VOC								
ALD/KET	FOR							
ALD/KET	FOR							
ALD/KET	FOR							
HAPS	PHENOL							
HAPS	PHENOL							
HAPS	PHENOL							
FOR	VOC	ACETALD						
FOR	VOC	ACETALD						
FOR	VOC	ACETALD						
FOR	VOC	ACETALD						
FOR	VOC	ACETALD						
FOR	VOC	ACETALD						
PM								
PM								
PM								
PM								
PM								

MDF - REPORTS TABLE, page 2c

Test Code	Run	Comments
173-091192E	2	
173-091192E	3	
173-091192F	1	
173-091192F	2	
173-091192F	3	
173-091192G	1	Stack flow represent 2 press vents only; temperatures and moistures are averages from 2 press stacks only; mass rates include building vents but not cooler vent.
173-091192G	2	Stack flow represent 2 press vents only; temperatures and moistures are averages from 2 press stacks only; mass rates include building vents but not cooler vent.
173-091192G	3	Stack flow represent 2 press vents only; temperatures and moistures are averages from 2 press stacks only; mass rates include building vents but not cooler vent.
173-091192H	1	Stack flow represent 2 press vents only; temperatures and moistures are averages from 2 press stacks only; mass rates include building vents but not cooler vent.
173-091192H	2	Stack flow represent 2 press vents only; temperatures and moistures are averages from 2 press stacks only; mass rates include building vents but not cooler vent.
173-091192H	3	Stack flow represent 2 press vents only; temperatures and moistures are averages from 2 press stacks only; mass rates include building vents but not cooler vent.
173-092592A	1	
173-092592A	2	
173-092592A	3	
173-092592B	1	
173-092592B	2	
173-092592B	3	
173-092592C	1	
173-092592C	2	
173-092592C	3	
173-092692A	1	
173-092692A	2	
173-092692A	3	
173-092692B	1	
173-092692B	2	
173-092692B	3	
192-020194B	1	Reported emission mass rates are doubled becuase only one stack of 2 was sampled.
192-020194B	2	Reported emission mass rates are doubled becuase only one stack of 2 was sampled.
192-020194B	3	Reported emission mass rates are doubled becuase only one stack of 2 was sampled.
192-020194C	1	Reported emission mass rates are doubled becuase only one stack of 2 was sampled.
192-020194C	2	Reported emission mass rates are doubled becuase only one stack of 2 was sampled.
192-020194C	3	Reported emission mass rates are doubled becuase only one stack of 2 was sampled.
192-050492A	1	1 Tube dryer with twin cyclones; not tested simultaneously; flows and mass rates added together.
192-050492A	2	1 Tube dryer with twin cyclones; not tested simultaneously; flows and mass rates added together.
192-050492A	3	1 Tube dryer with twin cyclones; not tested simultaneously; flows and mass rates added together.
192-050592B	1	
192-050592C	1	

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MDF - REPORTS TABLE, page 3a

Test Code	Unit Code	Run	Production Rate (Units)	Production Rate (Units)	Fac Code	One to one?	Sam. Loc.	Stack Flow (dscfm)	Stack Temperature (F)	Stack Moisture (%)
192-050592C	2Z192	2	27,700 lb/hr		192	Y	OUT	27449	78	0.5
192-050592C	2Z192	3	27,700 lb/hr		192	Y	OUT	25487	78	0.5
192-050592D	1F192	1	53,098 lb/hr		192	Y	OUT	7758	109	4.8
192-050592D	1F192	2	53,098 lb/hr		192	Y	OUT	8604	109	4.8
192-050592D	1F192	3	53,098 lb/hr		192	Y	OUT	8310	101	2.8
227-031192A	4D227	1	8.31 ODTH		227	N	OUT	64726	133	7.8
227-031192A	4D227	2	8.28 ODTH		227	N	OUT	65800	129	8.3
227-031192A	4D227	3	8.56 ODTH		227	N	OUT	67136	130	6.6
227-031292A	3D227	1	7.66 ODTH		227	N	OUT	63166	139	8.3
227-031292A	3D227	2	7.94 ODTH		227	N	OUT	62862	139	7.6
227-031292A	3D227	3	8.20 ODTH		227	N	OUT	62900	135	8
227-031292B	1F227	1			227		OUT	8655	74	1.1
227-031292B	1F227	2			227		OUT	8752	71	0.3
227-031292B	1F227	3			227		OUT	8365	72	1.1
227-031392A	2D227	1	5.03 ODTH		227	N	OUT	103298	114	5.15
227-031392A	2D227	2	5.54 ODTH		227	N	OUT	102907	123	5.65
227-031392A	2D227	3	5.55 ODTH		227	N	OUT	102518	122	5.35
227-031492A	1D227	1	6.09 ODTH		227	N	OUT	92878	129	6.25
227-031492A	1D227	2	6.02 ODTH		227	N	OUT	95901	127.3	6.1
227-031592A	2P227	1	21.25 TFP/hr		227	N	OUT	169090	83	1.56
227-031592A	2P227	2	20.86 TFP/hr		227	N	OUT	171690	85	1.56
227-031592A	2P227	3	21.11 TFP/hr		227	N	OUT	168697	87	1.48
227-031692A	2P227	1	19.81 TFP/hr		227	N	OUT	191500	74	0.5
227-031692A	2P227	2	19.81 TFP/hr		227	N	OUT	186800	76	1.6
227-031692A	2P227	3	19.64 TFP/hr		227	N	OUT	180200	76	1.5
227-031792A	1P227	1	13.88 TFP/hr		227	N	OUT	150354	94	1.2
227-031792A	1P227	2	14.01 TFP/hr		227	N	OUT	149674	96	1.5
227-031792A	1P227	3	13.89 TFP/hr		227	N	OUT	150097	96	1.2
227-031892A	1P227	1	13.29 TFP/hr		227	N	OUT	188300	77	0.8
227-031892A	1P227	2	13.77 TFP/hr		227	N	OUT	184300	79	1.2
227-031892A	1P227	3	13.85 TFP/hr		227	N	OUT	185500	80	1
227-031992A	2D227	1	5.61 ODTH		227	N	OUT	90700	136	5.25
227-031992A	2D227	2	5.65 ODTH		227	N	OUT	87300	137	8.4
227-031992A	2D227	3	5.39 ODTH		227	N	OUT	93000	133	8.15
227-032092A	3D227	1	8.80 ODTH		227	N	OUT	67200	137	8.5

MDF - REPORTS TABLE, page 3b

Pollutant 1	Pollutant 2	Pollutant 3	Pollutant 4	Pollutant 5	Pollutant 6	Pollutant 7	Pollutant 8	Pollutant 9
PM								
PM								
PM								
PM								
PM								
PM10	PM&CPM	PM	CPM					
PM10	PM&CPM	PM	CPM					
PM10	PM&CPM	PM	CPM					
PM10	PM&CPM	PM	CPM					
PM10	PM&CPM	PM	CPM					
PM10	PM&CPM	PM	CPM					
PM	PM&CPM	CPM						
PM	PM&CPM	CPM						
PM	PM&CPM	CPM						
PM10	PM&CPM	PM	CPM					
PM10	PM&CPM	PM	CPM					
PM10	PM&CPM	PM	CPM					
PM10	PM&CPM	PM	CPM					
PM10	PM&CPM	PM	CPM					
PM	PM&CPM	CPM						
PM	PM&CPM	CPM						
PM	PM&CPM	CPM						
FOR	VOC	CO						
FOR	VOC	CO						
FOR	VOC	CO						
PM	PM&CPM	CPM						
PM	PM&CPM	CPM						
PM	PM&CPM	CPM						
FOR	VOC	CO						
FOR	VOC	CO						
FOR	VOC	CO						
FOR	VOC	CO						
FOR	VOC	CO						
FOR	VOC	CO						

MDF - REPORTS TABLE, page 3c

Test Code	Run	Comments
192-050592C	2	
192-050592C	3	
192-050592D	1	
192-050592D	2	
192-050592D	3	
227-031192A	1	Dryer with two stacks only one of which was tested; flows and emission rates doubled (assume equal distribution since flow rates were taken at 2nd stack and were roughly equal).
227-031192A	2	Dryer with two stacks only one of which was tested; flows and emission rates doubled (assume equal distribution since flow rates were taken at 2nd stack and were roughly equal).
227-031192A	3	Dryer with two stacks only one of which was tested; flows and emission rates doubled (assume equal distribution since flow rates were taken at 2nd stack and were roughly equal).
227-031292A	1	Dryer with two stacks only one of which was tested; flows and emission rates doubled (assume equal distribution since flow rates were taken at 2nd stack and were roughly equal).
227-031292A	2	Dryer with two stacks only one of which was tested; flows and emission rates doubled (assume equal distribution since flow rates were taken at 2nd stack and were roughly equal).
227-031292A	3	Dryer with two stacks only one of which was tested; flows and emission rates doubled (assume equal distribution since flow rates were taken at 2nd stack and were roughly equal).
227-031292B	1	Description not provided.
227-031292B	2	Description not provided.
227-031292B	3	Description not provided.
227-031392A	1	Dryer with two stacks not tested simultaneously; results treated as if sumultaneous test.
227-031392A	2	Dryer with two stacks not tested simultaneously; results treated as if sumultaneous test.
227-031392A	3	Dryer with two stacks not tested simultaneously; results treated as if sumultaneous test.
227-031492A	1	Dryer with two stacks not tested simultaneously; results treated as if sumultaneous test.
227-031492A	2	Dryer with two stacks not tested simultaneously; results treated as if sumultaneous test.
227-031592A	1	Production given in tons of finished product (TFP); press vents not tested simultaneously.
227-031592A	2	Production given in tons of finished product (TFP); press vents not tested simultaneously.
227-031592A	3	Production given in tons of finished product (TFP); press vents not tested simultaneously.
227-031692A	1	Production given in tons of finished product (TFP); press vents not tested simultaneously.
227-031692A	2	Production given in tons of finished product (TFP); press vents not tested simultaneously.
227-031692A	3	Production given in tons of finished product (TFP); press vents not tested simultaneously.
227-031792A	1	Production given in tons of finished product (TFP); press vents not tested simultaneously.
227-031792A	2	Production given in tons of finished product (TFP); press vents not tested simultaneously.
227-031792A	3	Production given in tons of finished product (TFP); press vents not tested simultaneously.
227-031892A	1	Production given in tons of finished product (TFP); press vents not tested simultaneously.
227-031892A	2	Production given in tons of finished product (TFP); press vents not tested simultaneously.
227-031892A	3	Production given in tons of finished product (TFP); press vents not tested simultaneously.
227-031992A	1	Dryer with two stacks not tested simultaneously; results treated as if sumultaneous test.
227-031992A	2	Dryer with two stacks not tested simultaneously; results treated as if sumultaneous test.
227-031992A	3	Dryer with two stacks not tested simultaneously; results treated as if sumultaneous test.
227-032092A	1	Dryer with two stacks only one of which was tested; flows and emission rates doubled (assume equal distribution since flow rates were taken at 2nd stack and were roughly equal).

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MDF - REPORTS TABLE, page 4a

Test Code	Unit Code	Run	Production Rate (Units)	Production Rate (Units)	Fac Code	One to one?	Sam. Loc.	Stack Flow (dscfm)	Stack Temperature (F)	Stack Moisture (%)
227-032092A	3D227	2	9.01 ODTH		227	N	OUT	62000	134	9.1
227-032092A	3D227	3	8.97 ODTH		227	N	OUT	64600	141	8.9
227-032092B	4D227	1	8.91 ODTH		227	N	OUT	63600	136	9.5
227-032092B	4D227	2	8.00 ODTH		227	N	OUT	62600	137	11.1
227-032092B	4D227	3	8.86 ODTH		227	N	OUT	60600	135	11.2
227-032192A	1D227	1	5.14 ODTH		227	N	OUT	85600	126	5.2
227-032192A	1D227	2	5.14 ODTH		227	N	OUT	88300	122	5.1

MDF - REPORTS TABLE, page 4b

Pollutant 1	Pollutant 2	Pollutant 3	Pollutant 4	Pollutant 5	Pollutant 6	Pollutant 7	Pollutant 8	Pollutant 9
FOR	VOC	CO						
FOR	VOC	CO						
FOR	VOC	CO						
FOR	VOC	CO						
FOR	VOC	CO						
FOR	VOC	CO						
FOR	VOC	CO						

MDF - REPORTS TABLE, page 4c

Test Code	Run	Comments
227-032092A	2	Dryer with two stacks only one of which was tested; flows and emission rates doubled (assume equal distribution since flow rates were taken at 2nd stack and were roughly equal).
227-032092A	3	Dryer with two stacks only one of which was tested; flows and emission rates doubled (assume equal distribution since flow rates were taken at 2nd stack and were roughly equal).
227-032092B	1	Dryer with two stacks only one of which was tested; flows and emission rates doubled (assume equal distribution since flow rates were taken at 2nd stack and were roughly equal).
227-032092B	2	Dryer with two stacks only one of which was tested; flows and emission rates doubled (assume equal distribution since flow rates were taken at 2nd stack and were roughly equal).
227-032092B	3	Dryer with two stacks only one of which was tested; flows and emission rates doubled (assume equal distribution since flow rates were taken at 2nd stack and were roughly equal).
227-032192A	1	Dryer with two stacks not tested simultaneously; results treated as if sumultaneous test.
227-032192A	2	Dryer with two stacks not tested simultaneously; results treated as if sumultaneous test.

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MDF - DRYER A TABLE, page 1a of 1(a-b)

Unit Code	Equiptment Manufacturer	Dryer Type	Firing Type	Product	Dryer Capacity (Units)	Burner Manufacturer	Burner Capacity (MMBtu/hr)	Type Fuel 1	Type Fuel 2
1D093	MEC		IHEAT	MDF	21000 lb/hr				
1D121	US Metal	TUBE	DFIRE	MDF	19 ODTH	Energex	45	TRIM	SDUST
1D173	Flart	TUBE	IHEAT	MDF	21, 000 lbs/hr				
1D192	Garanty Performance	TUBE	IHEAT	MDF	16 ODTH				
1D227		TUBE	DFIRE	MDF				SDUST	TRIM
2D121	US Metal	TUBE	DFIRE	MDF	19 ODTH	Energex	45	TRIM	SDUST
2D192	Gauranty Performance	TUBE	IHEAT	MDF	16 ODTH				
2D227		TUBE	DFIRE	MDF				SDUST	TRIM
3D227		TUBE	DFIRE	MDF				SDUST	TRIM
4D227		TUBE	DFIRE	MDF				SDUST	TRIM

MDF - DRYER A TABLE, page 1b

Unit Code	Recy-cled ?	Initial PCD	Interm. PCD	Final PCD	Q/C ?	Comments
1D093	N			MCLO	N	Dryer type provided as rotary triple pass - not verified; dryer indirectly heated by thermal oil; resin added at blowline discharge refiner.
1D121	N			CYC	N	Dryer 1D121 & 2D121 are identical; both have 2 cyclones.
1D173	N			CYC	N	
1D192	N			CYC	N	UF resin added after refiners prior to tube dryer; a urea scavenger and wax additive are added prior to the refiners.
1D227				CYC		One dryer with 2 stacks; resin applied prior to the dryer.
2D121	N			CYC	N	Dryer 1D121 & 2D121 are identical; both have 2 cyclones.
2D192	N			CYC	N	UF resin added after refiners prior to tube dryers; a urea scavenger and wax addictive are added prior to the refiners.
2D227				CYC		One dryer with 2 stacks; resin applied prior to the dryer.
3D227				CYC		One dryer with 2 stacks; resin applied prior to the dryer.
4D227				CYC		One dryer with 2 stacks; resin applied prior to the dryer.

MDF - DRYER B TABLE, page 1a of 2(a-d)

Test Code	Unit Code	Run	Production Rate (ODTH)	Production Rate Other (Units)	Core, Surface, or Both	Wood Species 1	% Species 1	Wood Species 2	% Species 2	Wood Species 3
093-063088A	1D093	1	15.21			HWOOD	100			
093-063088A	1D093	2	15.21			HWOOD	100			
093-063088A	1D093	3	15.21			HWOOD	100			
121-052688A	1D121	1	13.7		S	SWOOD	100			
121-052688A	1D121	2	13.7		S	SWOOD	100			
121-052688A	1D121	3	13.7		S	SWOOD	100			
121-052788A	2D121	1	9.5		C	SWOOD	100			
121-052788A	2D121	2	9.5		C	SWOOD	100			
121-052788A	2D121	3	9.5		C	SWOOD	100			
121-062889A	1D121	1	15.75		S	SWOOD	100			
121-062889A	1D121	2	16.35		S	SWOOD	100			
121-062889A	1D121	3	16.5		S	SWOOD	100			
121-062989A	2D121	1	4.85		C	SWOOD	100			
121-062989A	2D121	2	4.2		C	SWOOD	100			
121-062989A	2D121	3	6		C	SWOOD	100			
173-092592A	1D173	1	9.02			HWOOD	50	SWOOD	50	
173-092592A	1D173	2	9.41			HWOOD	50	SWOOD	50	
173-092592A	1D173	3	8.72			HWOOD	50	SWOOD	50	
173-092592B	1D173	1	7.66			HWOOD	50	SWOOD	50	
173-092592B	1D173	2	7.41			HWOOD	50	SWOOD	50	
173-092592B	1D173	3	8.54			HWOOD	50	SWOOD	50	
173-092592C	1D173	1	9.25			HWOOD	50	SWOOD	50	
173-092592C	1D173	2	9.25			HWOOD	50	SWOOD	50	
173-092592C	1D173	3	8.72			HWOOD	50	SWOOD	50	
173-092692A	1D173	1	9.02			HWOOD	50	SWOOD	50	
173-092692A	1D173	2	9.41			HWOOD	50	SWOOD	50	
173-092692A	1D173	3	8.72			HWOOD	50	SWOOD	50	
173-092692B	1D173	1	7.66			HWOOD	50	SWOOD	50	
173-092692B	1D173	2	7.41			HWOOD	50	SWOOD	50	
173-092692B	1D173	3	8.54			HWOOD	50	SWOOD	50	
192-020194B	1D192	1	14.46			SY PINE	100			
192-020194B	1D192	2	14.68			SY PINE	100			
192-020194B	1D192	3	15.1			SY PINE	100			
192-020194C	2D192	1	12.56			SY PINE	100			
192-020194C	2D192	2	12.4			SY PINE	100			
192-020194C	2D192	3	12.83			SY PINE	100			
192-050492A	1D192	1	14.97			PINE SP	100			
192-050492A	1D192	2	15.19			PINE SP	100			
192-050492A	1D192	3	14.9			PINE SP	100			
227-031192A	4D227	1	8.31		S	PINE SP	100			
227-031192A	4D227	2	8.28		S	PINE SP	100			
227-031192A	4D227	3	8.56		S	PINE SP	100			
227-031292A	3D227	1	7.66		C	PINE SP	100			

MDF - DRYER B TABLE, page 1b

% Species 3	Hot Air Source 1	% Source 1	Hot Air Source 2	% Source 2	Hot Air Source 3	% Source 3	Type Fuel 1	Amount Fuel 1
	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
	SUSP BU	50	GAS B	50			WREF	
	SUSP BU	50	GAS B	50			WREF	
	SUSP BU	50	GAS B	50			WREF	
	SUSP BU	50	GAS B	50			WREF	
	SUSP BU	50	GAS B	50			WREF	
	SUSP BU	50	GAS B	50			WREF	
	SUSP BU	50	GAS B	50			WREF	
	SUSP BU	50	GAS B	50			WREF	
	SUSP BU	50	GAS B	50			WREF	
	SUSP BU	50	GAS B	50			WREF	
	SUSP BU	50	GAS B	50			WREF	
	SUSP BU	50	GAS B	50			WREF	
	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
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	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
	IHEAT	100						
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	

MDF - DRYER B TABLE, page 1c

Test Code	Run	% Fuel 1	Type Fuel 2	Amount Fuel 2	% Fuel 2	Inlet Moisture (%OD)	Outlet Moisture (%OD)	Inlet Temp (F)	Outlet Temp (F)
093-063088A	1								
093-063088A	2								
093-063088A	3								
121-052688A	1	50	NGAS		50		12.6	322	141
121-052688A	2	50	NGAS		50		12.6	322	141
121-052688A	3	50	NGAS		50		12.6	322	141
121-052788A	1	50	NGAS		50				
121-052788A	2	50	NGAS		50				
121-052788A	3	50	NGAS		50				
121-062889A	1	50	NGAS		50				
121-062889A	2	50	NGAS		50				
121-062889A	3	50	NGAS		50				
121-062989A	1	50	NGAS		50				
121-062989A	2	50	NGAS		50				
121-062989A	3	50	NGAS		50				
173-092592A	1					100	9.89	302	148
173-092592A	2					100	9.89	302	148
173-092592A	3					100	9.89	302	148
173-092592B	1					100	9.89	302	148
173-092592B	2					100	9.89	302	148
173-092592B	3					100	9.89	302	148
173-092592C	1					100	9.89	302	148
173-092592C	2					100	9.89	302	148
173-092592C	3					100	9.89	302	148
173-092692A	1					100	9.89	302	148
173-092692A	2					100	9.89	302	148
173-092692A	3					100	9.89	302	148
173-092692B	1					100	9.89	302	148
173-092692B	2					100	9.89	302	148
173-092692B	3					100	9.89	302	148
192-020194B	1						9.3	199	160
192-020194B	2						9.3	198	160
192-020194B	3						9.3	200	160
192-020194C	1						9.78	230	138
192-020194C	2						9.52	235	143
192-020194C	3						10.13	240	139
192-050492A	1						12.1		137
192-050492A	2						12.3		127
192-050492A	3						12		127
227-031192A	1		TRIM			27.4	9.6	155	125
227-031192A	2		TRIM			33.2	9.3	146	123
227-031192A	3		TRIM			34.2	11	150	123
227-031292A	1		TRIM			27.7	9.6	160	121

MDF - DRYER B TABLE, page 1d

Comments
Softwoods - composed of Douglas Fir, Wester Larch, Lodgepole Pine, Ponderosa Pine, Idaho White Pine, and Engleman Spruce.
Softwoods - composed of Douglas Fir, Wester Larch, Lodgepole Pine, Ponderosa Pine, Idaho White Pine, and Engleman Spruce.
Softwoods - composed of Douglas Fir, Wester Larch, Lodgepole Pine, Ponderosa Pine, Idaho White Pine, and Engleman Spruce.
Softwoods - composed of Douglas Fir, Wester Larch, Lodgepole Pine, Ponderosa Pine, Idaho White Pine, and Engleman Spruce.
Softwoods - composed of Douglas Fir, Wester Larch, Lodgepole Pine, Ponderosa Pine, Idaho White Pine, and Engleman Spruce.
Softwoods - composed of Douglas Fir, Wester Larch, Lodgepole Pine, Ponderosa Pine, Idaho White Pine, and Engleman Spruce.
Only 1 of 2 cyclones tested; assumed equal distribution to both cyclones; comparison of face & core material available.
Only 1 of 2 cyclones tested; assumed equal distribution to both cyclones; comparison of face & core material available.
Only 1 of 2 cyclones tested; assumed equal distribution to both cyclones; comparison of face & core material available.
Only 1 of 2 cyclones tested; assumed equal distribution to both cyclones; comparison of face & core material available.
Only 1 of 2 cyclones tested; assumed equal distribution to both cyclones; comparison of face & core material available.
Only 1 of 2 cyclones tested; assumed equal distribution to both cyclones; comparison of face & core material available.
Resin addition, 7.73% solids per pound of dry wood; ODTH production does not include resin.
Resin addition, 7.73% solids per pound of dry wood; ODTH production does not include resin.
Resin addition, 7.73% solids per pound of dry wood; ODTH production does not include resin.
Resin addition, 13.0% solids per pound of dry wood; ODTH production does not include resin.
Resin addition, 13.0% solids per pound of dry wood; ODTH production does not include resin.
Resin addition, 13.0% solids per pound of dry wood; ODTH production does not include resin.
Tube dryer sends product to twin cyclones; cyclones not tested simultaneously; results combined.
Tube dryer sends product to twin cyclones; cyclones not tested simultaneously; results combined.
Tube dryer sends product to twin cyclones; cyclones not tested simultaneously; results combined.
Comparison of inlet temperature available this facility, all 4 dryers; approximately 40% green chips, 60% planer shavings.
Comparison of inlet temperature available this facility, all 4 dryers; approximately 40% green chips, 60% planer shavings.
Comparison of inlet temperature available this facility, all 4 dryers; approximately 40% green chips, 60% planer shavings.
Comparison of inlet temperature available this facility, all 4 dryers; approximately 40% green chips, 60% planer shavings.

MDF - DRYER B TABLE, page 2a

Test Code	Unit Code	Run	Production Rate (ODTH)	Production Rate Other (Units)	Core, Surface, or Both	Wood Species 1	% Species 1	Wood Species 2	% Species 2	Wood Species 3
227-031292A	3D227	2	7.94		C	PINE SP	100			
227-031292A	3D227	3	8.2		C	PINE SP	100			
227-031392A	2D227	1	5.03			PINE SP	100			
227-031392A	2D227	2	5.54			PINE SP	100			
227-031392A	2D227	3	5.55			PINE SP	100			
227-031492A	1D227	1	6.09			PINE SP	100			
227-031492A	1D227	2	6.02			PINE SP	100			
227-031992A	2D227	1	5.61			PINE SP	100			
227-031992A	2D227	2	5.65			PINE SP	100			
227-031992A	2D227	3	5.39			PINE SP	100			
227-032092A	3D227	1	8.8		C	PINE SP	100			
227-032092A	3D227	2	9.01		C	PINE SP	100			
227-032092A	3D227	3	8.97		C	PINE SP	100			
227-032092B	4D227	1	8.91		S	PINE SP	100			
227-032092B	4D227	2	8		S	PINE SP	100			
227-032092B	4D227	3	8.86		S	PINE SP	100			
227-032192A	1D227	1	5.14			PINE SP	100			
227-032192A	1D227	2	5.14			PINE SP	100			

MDF - DRYER B TABLE, page 2b

% Species 3	Hot Air Source 1	% Source 1	Hot Air Source 2	% Source 2	Hot Air Source 3	% Source 3	Type Fuel 1	Amount Fuel 1
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	
	SUSP BU	100					SDUST	

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MDF - PRESS A TABLE, page 1 of 1(a)

Unit Code	Equiptment Manufacturer	Size and Openings	Product	Number of Press Vents	Comments
1P027	Sunds	8x26 6 openings	MDF	2	
1P093	WA Iron Works	5x18 14 openings	MDF	2	Press and unloader treated as separate units.
1P173	WA Iron Works	5x24 8 openings	MDF	5	
1P227		16 openings	MDF	4	Includes board cooler; one vent past board cooler not tested on some tests.
2P227		Continuous press	MDF	5	Continuous press - normally 6 vents; 2 vents closed for testing.

MDF - PRESS B TABLE, page 1a of 1(a-d)

Test Code	Unit Code	Run	Production Rate MSF 3/4/hr	Production Rate Other (Units)	Press Temp. (F)	Press Cycle Time (min.)	Nominal Thickness (inches)	Board Density (lb/ft3)	Moisture Content (%)
027-051793A	1P027	1	13.8		380	4.5	7/16-1.5	47	8.5
027-051793A	1P027	2	13.8		380	4.5	7/16-1.5	47	8.5
027-051893A	1P027	1	14.39		380	4.5	7/16-1.5	47	8.5
027-051893A	1P027	2	14.39		380	4.5	7/16-1.5	47	8.5
027-052593A	1P027	1	15.19		380	4.5	7/16-1.5	47	8.5
027-052593A	1P027	2	15.19		380	4.5	7/16-1.5	47	8.5
093-063088B	1P093	1	9.24			32.7	3/4	48.9	
093-063088B	1P093	2	9.24			32.7	3/4	48.9	
093-063088B	1P093	3	9.24			32.7	3/4	48.9	
173-091092G	1P173	1	12.8			3.13	.625	48.6	8.5
173-091092G	1P173	2	13			3.13	.625	48.6	8.5
173-091092G	1P173	3	13			3.13	.625	48.6	8.5
173-091192G	1P173	1	13			3.13	.625	48.6	8.5
173-091192G	1P173	2	11.9			3.76	.75	47.1	8.5
173-091192G	1P173	3	11.9			3.76	.75	47.1	8.5
173-091192H	1P173	1	13			3.13	.625	48.6	8.5
173-091192H	1P173	2	11.9			3.76	.75	47.1	8.5
173-091192H	1P173	3	11.9			3.76	.75	47.1	8.5
227-031592A	2P227	1		21.25 TFP/hr	295				
227-031592A	2P227	2		20.86 TFP/hr	295				
227-031592A	2P227	3		21.11 TFP/hr	295				
227-031692A	2P227	1		19.81 TFP/hr	295				
227-031692A	2P227	2		19.81 TFP/hr	295				
227-031692A	2P227	3		19.64 TFP/hr	295				
227-031792A	1P227	1		13.88 TFP/hr					
227-031792A	1P227	2		14.01 TFP/hr					
227-031792A	1P227	3		13.89 TFP/hr					
227-031892A	1P227	1		13.29 TFP/hr					
227-031892A	1P227	2		13.77 TFP/hr					
227-031892A	1P227	3		13.85 TFP/hr					

MDF - PRESS B TABLE, page 1b

Wood Species 1	% Species 1	Wood Species 2	% Species 2	Wood Species 3	% Species 3	Type Adhesive 1	Application Rate 1 (Units)	Type Adhesive 2
PINE SP	100					UF	213 lb/MSF	
PINE SP	100					UF	213 lb/MSF	
PINE SP	100					UF	213 lb/MSF	
PINE SP	100					UF	213 lb/MSF	
PINE SP	100					UF	213 lb/MSF	
PINE SP	100					UF	213 lb/MSF	
HWOOD	100							
HWOOD	100							
HWOOD	100							
HWOOD	100					UF	7.8%	
HWOOD	100					UF	7.8%	
HWOOD	100					UF	7.8%	
HWOOD	100					UF	7.8%	
HWOOD	100					UF	7.8%	
HWOOD	100					UF	7.8%	
HWOOD	100					UF	7.8%	
HWOOD	100					UF	7.8%	
HWOOD	100					UF	7.8%	
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		

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MDF - PRESS B TABLE, page 1b

Wood Species 1	% Species 1	Wood Species 2	% Species 2	Wood Species 3	% Species 3	Type Adhesive 1	Application Rate 1 (Units)	Type Adhesive 2
PINE SP	100					UF	213 lb/MSF	
PINE SP	100					UF	213 lb/MSF	
PINE SP	100					UF	213 lb/MSF	
PINE SP	100					UF	213 lb/MSF	
PINE SP	100					UF	213 lb/MSF	
PINE SP	100					UF	213 lb/MSF	
HWOOD	100							
HWOOD	100							
HWOOD	100							
HWOOD	100					UF	7.8%	
HWOOD	100					UF	7.8%	
HWOOD	100					UF	7.8%	
HWOOD	100					UF	7.8%	
HWOOD	100					UF	7.8%	
HWOOD	100					UF	7.8%	
HWOOD	100					UF	7.8%	
HWOOD	100					UF	7.8%	
HWOOD	100					UF	7.8%	
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		
SY PINE	100					UF		

MDF - PRESS B TABLE, page 1c

Test Code	Run	Application Rate 2	Core & Surface Different?	Formaldehyde Mole Ratio	% Free Formaldehyde	Any Catalyst or Scavenger?	Wax Application Rate (Units)
027-051793A	1			1.17		Y	12 lb/MSF
027-051793A	2			1.17		Y	12 lb/MSF
027-051893A	1			1.17		Y	12 lb/MSF
027-051893A	2			1.17		Y	12 lb/MSF
027-052593A	1			1.17		Y	12 lb/MSF
027-052593A	2			1.17		Y	12 lb/MSF
093-063088B	1	8%					
093-063088B	2	8%					
093-063088B	3	8%					
173-091092G	1					Y	321 lb/hr
173-091092G	2					Y	321 lb/hr
173-091092G	3					Y	321 lb/hr
173-091192G	1					Y	321 lb/hr
173-091192G	2					Y	333 lb/hr
173-091192G	3					Y	333 lb/hr
173-091192H	1					Y	333 lb/hr
173-091192H	2					Y	333 lb/hr
173-091192H	3					Y	333 lb/hr
227-031592A	1						
227-031592A	2						
227-031592A	3						
227-031692A	1						
227-031692A	2						
227-031692A	3						
227-031792A	1						
227-031792A	2						
227-031792A	3						
227-031892A	1						
227-031892A	2						
227-031892A	3						

MDF - PRESS B TABLE, page 1d

Other Additives ?	Comments
	Borden LM23 with urea scavenging agent; Liquid urea + microprill urea used but amount not documented; press and unloader separate.
	Borden LM23 with urea scavenging agent; Liquid urea + microprill urea used but amount not documented; press and unloader separate.
	Borden LM23 with urea scavenging agent; Liquid urea + microprill urea used but amount not documented; press and unloader separate.
Y	2 Press vents and 2 building vents; concentration data from press vents only; mass rate data are sum of all 4 vents; cooler emissions separate from press.
Y	2 Press vents and 2 building vents; concentration data from press vents only; mass rate data are sum of all 4 vents; cooler emissions separate from press.
Y	2 Press vents and 2 building vents; concentration data from press vents only; mass rate data are sum of all 4 vents; cooler emissions separate from press.
Y	2 Press vents and 2 building vents; concentration data from press vents only; mass rate data are sum of all 4 vents; cooler emissions separate from press.
Y	2 Press vents and 2 building vents; concentration data from press vents only; mass rate data are sum of all 4 vents; cooler emissions separate from press.
Y	2 Press vents and 2 building vents; concentration data from press vents only; mass rate data are sum of all 4 vents; cooler emissions separate from press.
Y	2 Press vents and 2 building vents; concentration data from press vents only; mass rate data are sum of all 4 vents; cooler emissions separate from press.
Y	2 Press vents and 2 building vents; concentration data from press vents only; mass rate data are sum of all 4 vents; cooler emissions separate from press.
Y	2 Press vents and 2 building vents; concentration data from press vents only; mass rate data are sum of all 4 vents; cooler emissions separate from press.
	Press vents not tested simultaneously. TFP = tons of finished product.
	Press vents not tested simultaneously. TFP = tons of finished product.
	Press vents not tested simultaneously. TFP = tons of finished product.
	Press vents not tested simultaneously. TFP = tons of finished product.
	Press vents not tested simultaneously. TFP = tons of finished product.
	Press vents not tested simultaneously. TFP = tons of finished product.
	Press vents not tested simultaneously. TFP = tons of finished product.
	Press vents not tested simultaneously. TFP = tons of finished product.
	Press vents not tested simultaneously. TFP = tons of finished product.
	Press vents not tested simultaneously. TFP = tons of finished product.
	Press vents not tested simultaneously. TFP = tons of finished product.
	Press vents not tested simultaneously. TFP = tons of finished product.

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MDF - COOLER A TABLE, page 1a of 1(a)

Unit Code	Product	Number of Vents	Comments
1C173	MDF	1	

MDF - COOLER B TABLE, page 1a of 1(a-b)

Test Code	Unit Code	Run	Production Rate (MSF /3/4/hr.)	Nominal Thickness (inches)	Board Density (lb/ft3)	Moisture Content (%)	Wood Species 1	% Species 1	Wood Species 2	% Species 2
173-091092C	1C173	1	8.7	.625						
173-091092C	1C173	2	14.3	.75						
173-091092C	1C173	3	11.6	.75						
173-091192E	1C173	2	11.9	.625						
173-091192E	1C173	3	11.9	.625						
173-091192F	1C173	1	13	.625						
173-091192F	1C173	2	11.9	.75						
173-091192F	1C173	3	11.9	.75						

MDF - COOLER B TABLE, page 1b

Type Adh-esive	Applica-tion Rate (Units)	Wax Application Rate (Units)	Comments
UF	7.8%	.321 Mlbs/hr	Press and cooler emissions are separate, not summed.
UF	7.8%	.333 Mlbs/hr	Press and cooler emissions are separate, not summed.
UF	7.8%	.333 Mlbs/hr	Press and cooler emissions are separate, not summed.
UF	7.8%	.321 Mlbs/hr	Press and cooler emissions are separate, not summed.
UF	7.8%	.321 Mlbs/hr	Press and cooler emissions are separate, not summed.
UF	7.8%	.321 Mlbs/hr	Press and cooler emissions are separate, not summed.
UF	7.8%	.333 Mlbs/hr	Press and cooler emissions are separate, not summed.
UF	7.8%	.333 Mlbs/hr	Press and cooler emissions are separate, not summed.

MDF - MISCELLANEOUS EQUIPMENT TABLE, page 1a of 1(a-b)

Test Code	Unit Code	Run	Description	Production Rate (Units)	Product	Initial PCD	Final PCD	Wood Species 1	% Species 1
192-050592B	1Z192	1	Refiner reject cyclone	9000 lb/hr	MDF		CYC	PINE SP	100
192-050592C	2Z192	1	Mat reject cyclone	27,700 lb/hr	MDF		CYC	PINE SP	100
192-050592C	2Z192	2	Mat reject cyclone	27,700 lb/hr	MDF		CYC	PINE SP	100
192-050592C	2Z192	3	Mat reject cyclone	27,700 lb/hr	MDF		CYC	PINE SP	100
192-050592D	1F192	1	Former vacuum cyclone	53,098 lb/hr	MDF		CYC	PINE SP	100
192-050592D	1F192	2	Former vacuum cyclone	53,098 lb/hr	MDF		CYC	PINE SP	100
192-050592D	1F192	3	Former vacuum cyclone	53,098 lb/hr	MDF		CYC	PINE SP	100
227-031292B	1F227	1	Former stack #1		MDF				
227-031292B	1F227	2	Former stack #1		MDF				
227-031292B	1F227	3	Former stack #1		MDF				

MDF - MISCELLANEOUS EQUIPMENT TABLE, page 1b

Inlet Moisture (%OD)	Outlet Moisture (%OD)	Inlet Temp. (F)	Outlet Temp. (F)	Pollutant 1	Pollutant 2	Pollutant 3	Comments
35	35		210	PM			Described as refiner reject start-up Vault-cyclone.
	9		78	PM			Cyclone handling mat reject.
	9		78	PM			Cyclone handling mat reject.
	9		78	PM			Cyclone handling mat reject.
			106	PM			Described as MDF mat Former Vacuum System.
			106	PM			Described as MDF mat Former Vacuum System.
			106	PM			Described as MDF mat Former Vacuum System.
				PM	CPM	PM+CPM	No information except that former stack was tested.
				PM	CPM	PM+CPM	No information except that former stack was tested.
				PM	CPM	PM+CPM	No information except that former stack was tested.

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MDF - UNLOADER A TABLE, page 1a of 1(a)

Unit Code	Product	Number of Vents	Comments
1U093	MDF	1	Press and unloader separate; emissions not summed.

MDF - UNLOADER B TABLE, page 1a of 1(a-b)

Test Code	Unit Code	Run	Production Rate MSF 3/4/hr	Wood Species 1	% Species 1	Wood Species 2	% Species 2	Type Adhesive 1	Application Rate 1 (Units)
093-063088C	1U093	1	9.24	HWOOD	100				8.0%
093-063088C	1U093	2	9.24	HWOOD	100				8.0%
093-063088C	1U093	3	9.24	HWOOD	100				8.0%

MDF - UNLOADER B TABLE, page 1b

Type Adhesive 2	Application Rate 2 (Units)	Wax Application Rate (Units)	Comments
			Adhesive is Borden LM 23
			Adhesive is Borden LM 23
			Adhesive is Borden LM 23

MDF - CARBON MONOXIDE TABLE, page 1a of 1(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
027-051893A	1P027	1	CO	M10	OUT			0.53	
027-051893A	1P027	2	CO	M10	OUT			0.43	
227-031692A	2P227	1	CO	M10	OUT	1.9		1.56	
227-031692A	2P227	2	CO	M10	OUT	2.32		1.83	
227-031692A	2P227	3	CO	M10	OUT	2.26		1.73	
227-031892A	1P227	1	CO	M10	OUT	2.68		2.48	
227-031892A	1P227	2	CO	M10	OUT	2.85		2.63	
227-031892A	1P227	3	CO	M10	OUT	2.5		2.43	
227-031992A	2D227	1	CO	M10	OUT	31.3		12.3	2.19
227-031992A	2D227	2	CO	M10	OUT	31		11.8	2.09
227-031992A	2D227	3	CO	M10	OUT	25.5		10.2	1.89
227-032092A	3D227	1	CO	M10	OUT	187		54.8	6.23
227-032092A	3D227	2	CO	M10	OUT	192		51.8	5.75
227-032092A	3D227	3	CO	M10	OUT	198		55.6	6.2
227-032092B	4D227	1	CO	M10	OUT	222		61.6	6.91
227-032092B	4D227	2	CO	M10	OUT	209		57.2	7.15
227-032092B	4D227	3	CO	M10	OUT	219		57.8	6.52
227-032192A	1D227	1	CO	M10	OUT	13.1		5	0.97
227-032192A	1D227	2	CO	M10	OUT	10.4		4	0.78

MDF - CARBON MONOXIDE TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
		0.037		
		0.03		
			0.08 lb/TFP	TFP = Ton of finished product.
			0.09 lb/TFP	TFP = Ton of finished product.
			0.09 lb/TFP	TFP = Ton of finished product.
			0.19 lb/TFP	TFP = Ton of finished product.
			0.19 lb/TFP	TFP = Ton of finished product.
			0.18 lb/TFP	TFP = Ton of finished product.

MDF - CONDENSIBLE PARTICULATE MATTER (CMP) TABLE, page 1a of 1(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
027-051893A	1P027	1	CPM	M202	OUT			3.86	
027-051893A	1P027	2	CPM	M202	OUT			3.6	
121-062889A	1D121	1	CPM	M202	OUT			1.69	0.107
121-062889A	1D121	2	CPM	M202	OUT			2.01	0.123
121-062889A	1D121	3	CPM	M202	OUT			0.44	0.027
121-062989A	2D121	1	CPM	M202	OUT			0.73	0.15
121-062989A	2D121	2	CPM	M202	OUT			0.95	0.226
121-062989A	2D121	3	CPM	M202	OUT			19.56	3.26
173-092592A	1D173	1	CPM	M202	OUT		0.0117	8.67	0.961
173-092592A	1D173	2	CPM	M202	OUT		0.0038	3.05	0.324
173-092592A	1D173	3	CPM	M202	OUT		0.0096	7.78	0.892
227-031192A	4D227	1	CPM	M202	OUT		0.0038	2.2	0.26
227-031192A	4D227	2	CPM	M202	OUT		0.0068	3.8	0.46
227-031192A	4D227	3	CPM	M202	OUT		0.0045	2.6	0.3
227-031292A	3D227	1	CPM	M202	OUT		0.009	4.8	0.63
227-031292A	3D227	2	CPM	M202	OUT		0.007	4	0.5
227-031292A	3D227	3	CPM	M202	OUT		0.008	4.2	0.51
227-031292B	1F227	1	CPM	M202	OUT		0.0047	0.4	
227-031292B	1F227	2	CPM	M202	OUT		0.0072	0.5	
227-031292B	1F227	3	CPM	M202	OUT		0.0057	0.4	
227-031392A	2D227	1	CPM	M202	OUT		0.003	2.6	0.52
227-031392A	2D227	2	CPM	M202	OUT		0.004	3.9	0.7
227-031392A	2D227	3	CPM	M202	OUT		0.004	3.7	0.67
227-031492A	1D227	1	CPM	M202	OUT		0.005	4.3	0.71
227-031492A	1D227	2	CPM	M202	OUT		0.008	6.1	1.01
227-031592A	2P227	1	CPM	M202	OUT		0.0023	3.5	
227-031592A	2P227	2	CPM	M202	OUT		0.0021	3.12	
227-031592A	2P227	3	CPM	M202	OUT		0.0017	2.48	
227-031792A	1P227	1	CPM	M202	OUT		0.0019	2.5	
227-031792A	1P227	2	CPM	M202	OUT		0.002	2.58	
227-031792A	1P227	3	CPM	M202	OUT		0.0023	2.94	

MDF - CONDENSIBLE PARTICULATE MATTER (CMP) TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
		0.268		
		0.25		
				Run 3 calculations o.k.; possibly lab error.
				CPM separated into extractable and non extractable fractions in report.
				CPM separated into extractable and non extractable fractions in report.
				CPM separated into extractable and non extractable fractions in report.
			0.16 lb/TFP	TFP = Ton of Finished Product.
			0.15 lb/TFP	TFP = Ton of Finished Product.
			0.12 lb/TFP	TFP = Ton of Finished Product.
			0.18 lb/TFP	TFP = Ton of Finished Product.
			0.18 lb/TFP	TFP = Ton of Finished Product.
			0.21 lb/TFP	TFP = Ton of Finished Product.

MDF - GENERIC POLLUTANT TABLE, page 1a of 4(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
173-091192E	1C173	2	2,5 DMBENZ	M0011	OUT	3.41E-03		2.09E-03	
173-091192E	1C173	3	2,5 DMBENZ	M0011	OUT	3.93E-03		2.18E-03	
173-091192E	1C173	2	ACETALD	M0011	OUT	5.22E-02		1.05E-02	
173-091192E	1C173	3	ACETALD	M0011	OUT	6.87E-02		1.26E-02	
173-091192E	1C173	2	ACETONE	M0011	OUT	1.26E-01		3.33E-02	
173-091192E	1C173	3	ACETONE	M0011	OUT	7.23E-02		1.74E-02	
173-091192E	1C173	2	ACROLEIN	M0011	OUT	9.00E-03		2.32E-03	
173-091192E	1C173	3	ACROLEIN	M0011	OUT	1.23E-02		2.86E-03	
173-091192E	1C173	2	BENZALD	M0011	OUT	2.77E-03		1.34E-03	
173-091192E	1C173	3	BENZALD	M0011	OUT	2.22E-03		9.78E-04	
173-091192E	1C173	2	BUTYLALDEH	M0011	OUT	8.18E-02		2.69E-02	
173-091192E	1C173	3	BUTYLALDEH	M0011	OUT	1.91E-02		5.70E-03	
173-091192E	1C173	2	CROTONALD	M0011	OUT	1.03E-02		3.29E-03	
173-091192E	1C173	3	CROTONALD	M0011	OUT	9.07E-03		2.60E-03	
173-091192E	1C173	2	HEXALD	M0011	OUT	1.51E-02		6.95E-03	
173-091192E	1C173	3	HEXALD	M0011	OUT	1.92E-02		7.98E-03	
173-091192E	1C173	2	ISOVALALD	M0011	OUT	7.40E-03		2.91E-03	
173-091192E	1C173	3	ISOVALALD	M0011	OUT	8.40E-03		3.01E-03	
173-091192E	1C173	2	MEK	M0011	OUT	4.53E-03		1.49E-03	
173-091192E	1C173	3	MEK	M0011	OUT	3.52E-03		1.05E-03	
173-091192E	1C173	2	O-TOLALD	M0011	OUT	6.80E-04		3.74E-04	
173-091192E	1C173	3	O-TOLALD	M0011	OUT	2.26E-03		1.13E-03	
173-091192E	1C173	2	P-TOLALD	M0011	OUT	3.30E-03		1.79E-03	
173-091192E	1C173	3	P-TOLALD	M0011	OUT	4.20E-03		2.11E-03	
173-091192E	1C173	2	VALALD	M0011	OUT	1.21E-02		4.78E-03	
173-091192E	1C173	3	VALALD	M0011	OUT	1.75E-02		6.24E-03	
173-091192G	1P173	1	2,5 DMBENZ	M0011	OUT	2.09E-02		1.80E-02	
173-091192G	1P173	2	2,5 DMBENZ	M0011	OUT	2.05E-02		2.16E-02	
173-091192G	1P173	1	ACETALD	M0011	OUT	3.09E-01		7.14E-02	
173-091192G	1P173	2	ACETALD	M0011	OUT	2.38E-01		5.54E-02	
173-091192G	1P173	1	ACETONE	M0011	OUT	6.63E-02		3.65E-02	
173-091192G	1P173	2	ACETONE	M0011	OUT	1.13E-01		4.13E-02	
173-091192G	1P173	1	ACROLEIN	M0011	OUT	5.15E-02		1.69E-02	
173-091192G	1P173	2	ACROLEIN	M0011	OUT	3.75E-02		1.32E-02	
173-091192G	1P173	1	BENZALD	M0011	OUT	6.00E-03		8.10E-03	
173-091192G	1P173	2	BENZALD	M0011	OUT	6.50E-03		5.80E-03	
173-091192G	1P173	1	BUTYLALDEH	M0011	OUT	4.50E-02		2.91E-02	
173-091192G	1P173	2	BUTYLALDEH	M0011	OUT	4.80E-02		2.95E-02	
173-091192G	1P173	1	CROTONALD	M0011	OUT	1.70E-02		9.64E-03	
173-091192G	1P173	2	CROTONALD	M0011	OUT	2.80E-02		1.75E-02	
173-091192G	1P173	1	HEXALD	M0011	OUT	3.01E-02		4.05E-02	

MDF - GENERIC POLLUTANT TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
		1.80E-04		Press and cooler emissions are separate, not summed.
		1.90E-04		Press and cooler emissions are separate, not summed.
		9.05E-04		Press and cooler emissions are separate, not summed.
		1.10E-03		Press and cooler emissions are separate, not summed.
		2.90E-03		Press and cooler emissions are separate, not summed.
		1.36E-03		Press and cooler emissions are separate, not summed.
		1.95E-04		Press and cooler emissions are separate, not summed.
		2.47E-04		Press and cooler emissions are separate, not summed.
		1.13E-04		Press and cooler emissions are separate, not summed.
		8.50E-05		Press and cooler emissions are separate, not summed.
		2.32E-03		Press and cooler emissions are separate, not summed.
		4.96E-04		Press and cooler emissions are separate, not summed.
		2.84E-04		Press and cooler emissions are separate, not summed.
		2.26E-04		Press and cooler emissions are separate, not summed.
		5.99E-04		Press and cooler emissions are separate, not summed.
		6.94E-04		Press and cooler emissions are separate, not summed.
		2.45E-04		Press and cooler emissions are separate, not summed.
		2.50E-04		Press and cooler emissions are separate, not summed.
		1.28E-04		Press and cooler emissions are separate, not summed.
		9.13E-05		Press and cooler emissions are separate, not summed.
		3.22E-05		Press and cooler emissions are separate, not summed.
		9.83E-05		Press and cooler emissions are separate, not summed.
		1.54E-04		P-tolualdehyde and m-tolualdehyde combined; press and cooler emissions are separate.
		1.83E-04		P-tolualdehyde and m-tolualdehyde combined; press and cooler emissions are separate.
		4.12E-04		Press and cooler emissions are separate, not summed.
		5.43E-04		Press and cooler emissions are separate, not summed.
		1.38E-03		Board cooler emissions are separate; 1C173.
		3.56E-03		Board cooler emissions are separate; 1C173.
		5.49E-03		Board cooler emissions are separate; 1C173.
		4.66E-03		Board cooler emissions are separate; 1C173.
		2.81E-03		Board cooler emissions are separate; 1C173.
		3.47E-03		Board cooler emissions are separate; 1C173.
		1.30E-03		Board cooler emissions are separate; 1C173.
		1.11E-03		Board cooler emissions are separate; 1C173.
		6.23E-04		Board cooler emissions are separate; 1C173.
		4.83E-04		Board cooler emissions are separate; 1C173.
		2.24E-03		Board cooler emissions are separate; 1C173.
		2.48E-03		Board cooler emissions are separate; 1C173.
		7.42E-04		Board cooler emissions are separate; 1C173.
		1.47E-03		Board cooler emissions are separate; 1C173.
		3.11E-03		Board cooler emissions are separate; 1C173.

MDF - GENERIC POLLUTANT TABLE, page 2a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
173-091192G	1P173	2	HEXALD	M0011	OUT	2.34E-02		3.23E-02	
173-091192G	1P173	1	ISOVALALD	M0011	OUT	1.81E-02		1.53E-02	
173-091192G	1P173	2	ISOVALALD	M0011	OUT	2.50E-02		1.87E-02	
173-091192G	1P173	1	MEK	M0011	OUT	3.98E-02		1.12E-02	
173-091192G	1P173	2	MEK	M0011	OUT	1.19E-02		3.70E-03	
173-091192G	1P173	1	O-TOLALD	M0011	OUT	1.40E-02		1.35E-02	
173-091192G	1P173	2	O-TOLALD	M0011	OUT	3.20E-03		4.35E-03	
173-091192G	1P173	1	P-TOLALD	M0011	OUT	1.47E-02		1.14E-02	
173-091192G	1P173	2	P-TOLALD	M0011	OUT	2.24E-02		1.39E-02	
173-091192G	1P173	1	PROPIONALD	M0011	OUT	1.43E-02		5.74E-03	
173-091192G	1P173	2	PROPIONALD	M0011	OUT	1.79E-02		7.57E-03	
173-091192G	1P173	1	VALALD	M0011	OUT	3.60E-02		2.87E-02	
173-091192G	1P173	2	VALALD	M0011	OUT	3.20E-02		3.02E-02	
173-092692A	1D173	1	2,5 DMBENZ	M0011	OUT	1.50E-03		2.73E-03	3.03E-04
173-092692A	1D173	2	2,5 DMBENZ	M0011	OUT	2.14E-03		4.20E-03	4.46E-04
173-092692A	1D173	3	2,5 DMBENZ	M0011	OUT	1.70E-03		3.40E-03	3.90E-04
173-092692A	1D173	1	ACETALD	M0011	OUT	2.05E-01		1.22E-01	1.35E-02
173-092692A	1D173	2	ACETALD	M0011	OUT	9.12E-02		5.94E-02	6.30E-03
173-092692A	1D173	3	ACETALD	M0011	OUT	2.54E-01		1.68E-01	1.93E-02
173-092692A	1D173	1	ACETONE	M0011	OUT	6.44E-02		5.06E-02	5.61E-03
173-092692A	1D173	2	ACETONE	M0011	OUT	2.54E-02		2.18E-02	2.32E-03
173-092692A	1D173	3	ACETONE	M0011	OUT	3.98E-02		3.46E-02	3.97E-03
173-092692A	1D173	1	ACROLEIN	M0011	OUT	2.22E-02		1.69E-02	1.87E-03
173-092692A	1D173	2	ACROLEIN	M0011	OUT	1.95E-02		1.62E-02	1.72E-03
173-092692A	1D173	3	ACROLEIN	M0011	OUT	3.12E-02		2.62E-02	3.01E-03
173-092692A	1D173	1	BENZALD	M0011	OUT	1.24E-02		1.79E-02	1.98E-03
173-092692A	1D173	2	BENZALD	M0011	OUT	1.93E-02		3.02E-02	3.21E-03
173-092692A	1D173	3	BENZALD	M0011	OUT	1.40E-02		2.22E-02	2.55E-03
173-092692A	1D173	1	BUTYLALDEH	M0011	OUT	2.54E-02		2.48E-02	2.75E-03
173-092692A	1D173	2	BUTYLALDEH	M0011	OUT	2.07E-02		2.20E-02	2.34E-03
173-092692A	1D173	3	BUTYLALDEH	M0011	OUT	2.72E-02		2.93E-02	3.36E-03
173-092692A	1D173	1	CROTONALD	M0011	OUT	1.70E-02		1.61E-02	1.79E-03
173-092692A	1D173	2	CROTONALD	M0011	OUT	1.74E-02		1.80E-02	1.91E-03
173-092692A	1D173	3	CROTONALD	M0011	OUT	1.65E-02		1.73E-02	1.98E-03
173-092692A	1D173	1	HEXALD	M0011	OUT	1.45E-02		1.96E-02	2.17E-03
173-092692A	1D173	2	HEXALD	M0011	OUT	1.24E-02		1.83E-02	1.95E-03
173-092692A	1D173	3	HEXALD	M0011	OUT	2.18E-02		3.27E-02	3.75E-03
173-092692A	1D173	1	ISOVALALD	M0011	OUT	1.26E-02		1.46E-02	1.62E-03
173-092692A	1D173	2	ISOVALALD	M0011	OUT	1.13E-02		1.43E-02	1.52E-03
173-092692A	1D173	3	ISOVALALD	M0011	OUT	1.69E-02		2.17E-02	2.49E-03
173-092692A	1D173	1	MEK	M0011	OUT	5.16E-02		5.04E-02	5.59E-03

MDF - GENERIC POLLUTANT TABLE, page 2b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
		2.71E-03		Board cooler emissions are separate; 1C173.
		1.18E-03		Board cooler emissions are separate; 1C173.
		1.57E-03		Board cooler emissions are separate; 1C173.
		8.62E-04		Board cooler emissions are separate; 1C173.
		3.13E-04		Board cooler emissions are separate; 1C173.
		1.04E-03		Board cooler emissions are separate; 1C173.
		3.65E-04		Board cooler emissions are separate; 1C173.
		8.77E-04		Board cooler emissions are separate; 1C173. P-tolad and m-tolad are combined.
		1.17E-03		Board cooler emissions are separate; 1C173. P-tolad and m-tolad are combined.
		4.42E-04		Board cooler emissions are separate; 1C173.
		6.38E-04		Board cooler emissions are separate; 1C173.
		2.21E-03		Board cooler emissions are separate; 1C173.
		2.54E-03		Board cooler emissions are separate; 1C173.

MDF - GENERIC POLLUTANT TABLE, page 3a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
173-092692A	1D173	2	MEK	M0011	OUT	5.03E-02		5.36E-02	5.70E-03
173-092692A	1D173	3	MEK	M0011	OUT	6.24E-02		6.73E-02	7.72E-03
173-092692A	1D173	1	O-TOLALD	M0011	OUT	5.18E-03		8.43E-03	9.36E-04
173-092692A	1D173	2	O-TOLALD	M0011	OUT	4.18E-03		7.43E-03	7.90E-04
173-092692A	1D173	3	O-TOLALD	M0011	OUT	2.33E-03		4.19E-03	4.81E-04
173-092692A	1D173	1	P-TOLALD	M0011	OUT	2.45E-02		3.99E-02	4.42E-03
173-092692A	1D173	2	P-TOLALD	M0011	OUT	2.90E-02		5.15E-02	5.47E-03
173-092692A	1D173	3	P-TOLALD	M0011	OUT	4.80E-03		8.60E-03	9.86E-04
173-092692A	1D173	1	PROPIONALD	M0011	OUT	1.20E-02		9.43E-03	1.05E-03
173-092692A	1D173	2	PROPIONALD	M0011	OUT	1.05E-02		9.02E-03	9.59E-04
173-092692A	1D173	3	PROPIONALD	M0011	OUT	1.17E-02		1.02E-02	1.17E-03
173-092692A	1D173	1	VALALD	M0011	OUT	1.40E-02		1.64E-02	1.82E-03
173-092692A	1D173	2	VALALD	M0011	OUT	1.27E-02		1.62E-02	1.72E-03
173-092692A	1D173	3	VALALD	M0011	OUT	1.87E-02		2.41E-02	2.76E-03
173-092692B	1D173	1	A-PINENE	M0010	OUT	2.28E-02		4.48E-02	5.85E-03
173-092692B	1D173	1	A-PINENE	M0030	OUT	2.33E-02		4.58E-02	5.98E-03
173-092692B	1D173	2	A-PINENE	M0010	OUT	3.04E-02		5.70E-02	7.69E-03
173-092692B	1D173	2	A-PINENE	M0030	OUT	3.00E-02		5.70E-02	7.69E-03
173-092692B	1D173	3	A-PINENE	M0010	OUT	2.33E-02		4.22E-02	4.94E-03
173-092692B	1D173	3	A-PINENE	M0030	OUT	2.34E-02		4.25E-02	4.98E-03
173-092692B	1D173	1	A-TERPINE	M0010	OUT	7.64E-03		1.70E-02	2.22E-03
173-092692B	1D173	2	A-TERPINE	M0010	OUT	9.18E-03		1.95E-02	2.63E-03
173-092692B	1D173	3	A-TERPINE	M0010	OUT	7.85E-03		1.61E-02	1.89E-03
173-092692B	1D173	1	ACETONE	M0030	OUT	1.22E-02		1.02E-02	1.33E-03
173-092692B	1D173	2	ACETONE	M0030	OUT	1.07E-02		8.50E-03	1.15E-03
173-092692B	1D173	3	ACETONE	M0030	OUT	1.00E-02		7.70E-03	9.02E-04
173-092692B	1D173	1	ACETPH	M0010	OUT	1.00E-03		1.80E-03	2.35E-04
173-092692B	1D173	2	ACETPH	M0010	OUT	1.00E-03		2.00E-03	2.70E-04
173-092692B	1D173	3	ACETPH	M0010	OUT	1.00E-03		1.80E-03	2.11E-04
173-092692B	1D173	1	B-PINENE	M0010	OUT	2.58E-02		5.06E-02	6.61E-03
173-092692B	1D173	1	B-PINENE	M0030	OUT	2.30E-02		4.52E-02	5.90E-03
173-092692B	1D173	2	B-PINENE	M0010	OUT	3.04E-02		5.69E-02	7.68E-03
173-092692B	1D173	2	B-PINENE	M0030	OUT	2.90E-02		5.49E-02	7.41E-03
173-092692B	1D173	3	B-PINENE	M0010	OUT	2.60E-02		4.71E-02	5.52E-03
173-092692B	1D173	3	B-PINENE	M0030	OUT	2.58E-02		4.68E-02	5.48E-03
173-092692B	1D173	1	BIS-2EH-PH	M0010	OUT	4.00E-04		2.00E-03	2.61E-04
173-092692B	1D173	2	BIS-2EH-PH	M0010	OUT	5.00E-04		2.55E-03	3.44E-04
173-092692B	1D173	3	BIS-2EH-PH	M0010	OUT	3.00E-04		1.63E-03	1.91E-04
173-092692B	1D173	1	BUTBENPHT	M0010	OUT	1.00E-03		1.80E-03	2.35E-04
173-092692B	1D173	2	BUTBENPHT	M0010	OUT	1.00E-03		2.00E-03	2.70E-04
173-092692B	1D173	3	BUTBENPHT	M0010	OUT	1.00E-03		1.80E-03	2.11E-04
173-092692B	1D173	1	CHLOROMET	M0030	OUT	1.99E-02		1.45E-02	1.89E-03
173-092692B	1D173	2	CHLOROMET	M0030	OUT	1.96E-02		1.36E-02	1.83E-03

MDF - GENERIC POLLUTANT TABLE, page 3b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
				P-Tolualdehyde and M-Tolualdehyde combined together.
				P-Tolualdehyde and M-Tolualdehyde combined together.
				P-Tolualdehyde and M-Tolualdehyde combined together.

MDF - GENERIC POLLUTANT TABLE, page 4a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
173-092692B	1D173	3	CHLOROMET	M0030	OUT	1.01E-02		6.80E-03	7.96E-04
173-092692B	1D173	1	D-N-BUT-PH	M0010	OUT	5.00E-04		2.03E-03	2.65E-04
173-092692B	1D173	2	D-N-BUT-PH	M0010	OUT	2.00E-04		7.00E-04	9.45E-05
173-092692B	1D173	3	D-N-BUT-PH	M0010	OUT	4.00E-04		1.59E-03	1.86E-04
173-092692B	1D173	1	ISOOCTANE	M0030	OUT	5.77E-03		9.51E-03	1.24E-03
173-092692B	1D173	2	ISOOCTANE	M0030	OUT	4.93E-04		7.75E-04	1.05E-04
173-092692B	1D173	3	ISOOCTANE	M0030	OUT	2.89E-03		4.40E-03	5.15E-04
173-092692B	1D173	1	METHENECH	M0030	OUT	1.92E-02		2.35E-02	3.07E-03
173-092692B	1D173	2	METHENECH	M0030	OUT	3.90E-03		4.60E-03	6.21E-04
173-092692B	1D173	3	METHENECH	M0030	OUT	3.72E-02		4.20E-02	4.92E-03
173-092692B	1D173	1	N-HEXANE	M0030	OUT	1.74E-02		2.16E-02	2.82E-03
173-092692B	1D173	2	N-HEXANE	M0030	OUT	1.40E-03		1.67E-03	2.25E-04
173-092692B	1D173	3	N-HEXANE	M0030	OUT	8.30E-03		9.60E-03	1.12E-03
173-092692B	1D173	1	NAPHALENE	M0010	OUT	2.60E-03		4.78E-03	6.24E-04
173-092692B	1D173	2	NAPHALENE	M0010	OUT	3.00E-03		5.22E-03	7.04E-04
173-092692B	1D173	1	P-CYMEME	M0010	OUT	6.00E-04		1.20E-03	1.57E-04
173-092692B	1D173	2	P-CYMEME	M0010	OUT	8.00E-04		1.80E-03	2.43E-04
173-092692B	1D173	3	P-CYMEME	M0010	OUT	7.00E-04		1.20E-03	1.41E-04
173-092692B	1D173	1	PHENOL	M0010	OUT	1.20E-03		1.60E-03	2.09E-04
173-092692B	1D173	2	PHENOL	M0010	OUT	1.10E-03		1.40E-03	1.89E-04
173-092692B	1D173	1	T-FL-METH	M0030	OUT	1.44E-02		2.85E-02	3.72E-03
173-092692B	1D173	2	T-FL-METH	M0030	OUT	1.01E-03		1.90E-03	2.56E-04
173-092692B	1D173	3	T-FL-METH	M0030	OUT	7.85E-03		1.43E-02	1.67E-04
192-020194B	1D192	1	ACETALD	M0011	OUT		4.10E-05	3.90E-02	2.70E-03
192-020194B	1D192	2	ACETALD	M0011	OUT		1.41E-04	1.37E-01	9.30E-03
192-020194B	1D192	3	ACETALD	M0011	OUT		1.46E-04	1.39E-01	9.20E-03
192-020194C	2D192	1	ACETALD	M0011	OUT		2.82E-04	2.38E-01	1.89E-02
192-020194C	2D192	2	ACETALD	M0011	OUT		3.38E-04	2.81E-01	2.27E-02
192-020194C	2D192	3	ACETALD	M0011	OUT		2.28E-04	1.91E-01	1.49E-02

MDF - GENERIC POLLUTANT TABLE, page 4b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments

MDF - NITROGEN OXIDES TABLE, page 1a of 1(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
027-051893A	1P027	1	NOX	M7E	OUT			0.52	
027-051893A	1P027	2	NOX	M7E	OUT			0.334	

MDF - NITROGEN OXIDES TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
		0.036		
		0.023		

MDF - PARTICULATE MATTER (PM) TABLE, page 1a of 2(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
027-051893A	1P027	1	PM	M5	OUT			2.99	
027-051893A	1P027	2	PM	M5	OUT			2.66	
121-062889A	1D121	1	PM	M5	OUT			17.7	1.12
121-062889A	1D121	2	PM	M5	OUT			18.8	1.15
121-062889A	1D121	3	PM	M5	OUT			13.2	0.8
121-062989A	2D121	1	PM	M5	OUT			35.9	7.4
121-062989A	2D121	2	PM	M5	OUT			21.7	5.17
121-062989A	2D121	3	PM	M5	OUT			19.4	3.23
173-091092C	1C173	1	PM	M5	OUT			0.399	
173-091092C	1C173	2	PM	M5	OUT			0.449	
173-091092C	1C173	3	PM	M5	OUT			0.375	
173-091092G	1P173	1	PM	M5	OUT			2.48	
173-091092G	1P173	2	PM	M5	OUT			2	
173-091092G	1P173	3	PM	M5	OUT			1.72	
173-091192F	1C173	1	PM	M5	OUT		16.95	0.916	
173-091192F	1C173	2	PM	M5	OUT		17.25	0.859	
173-092592A	1D173	1	PM	M5	OUT		0.0158	11.7	1.3
173-092592A	1D173	2	PM	M5	OUT		0.0174	14.1	1.5
173-092592A	1D173	3	PM	M5	OUT		0.0181	14.8	1.7
192-050492A	1D192	1	PM	OD8	OUT		0.023	20.3	1.36
192-050492A	1D192	2	PM	OD8	OUT		0.019	16.9	1.11
192-050492A	1D192	3	PM	OD8	OUT		0.026	23.8	1.6
192-050592B	1Z192	1	PM	OD8	OUT		3.92	2.2	
192-050592C	2Z192	1	PM	OD8	OUT		0.178	41.7	
192-050592C	2Z192	2	PM	OD8	OUT		0.128	30.1	
192-050592C	2Z192	3	PM	OD8	OUT		0.118	25.8	
192-050592D	1F192	1	PM	OD8	OUT		0.004	0.3	
192-050592D	1F192	2	PM	OD8	OUT		0.006	0.4	
192-050592D	1F192	3	PM	OD8	OUT		0.004	0.3	
227-031192A	4D227	1	PM	M5	OUT		0.0514	28.4	3.42
227-031192A	4D227	2	PM	M5	OUT		0.0431	24.4	2.95
227-031192A	4D227	3	PM	M5	OUT		0.0453	26	3.04
227-031292A	3D227	1	PM	M5	OUT		0.141	76.2	9.95
227-031292A	3D227	2	PM	M5	OUT		0.138	74.4	9.37
227-031292A	3D227	3	PM	M5	OUT		0.115	61.8	7.54
227-031292B	1F227	1	PM	M5	OUT		1.184	87.9	
227-031292B	1F227	2	PM	M5	OUT		0.945	70.9	
227-031292B	1F227	3	PM	M5	OUT		1.038	74.4	
227-031392A	2D227	1	PM	M5	OUT		0.07	61.8	12.29
227-031392A	2D227	2	PM	M5	OUT		0.096	84.7	15.29

MDF - PARTICULATE MATTER (PM) TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
		0.208		
		0.185		
		0.0456		Press and cooler emissions are separate, not summed.
		0.0314		Press and cooler emissions are separate, not summed.
		0.0323		Press and cooler emissions are separate, not summed.
		0.1938		Press and cooler emissions are separate, not summed.
		0.153		Press and cooler emissions are separate, not summed.
		0.132		Press and cooler emissions are separate, not summed.
		0.0705		Press and cooler emissions are separate, not summed.
		0.0722		Press and cooler emissions are separate, not summed.
				Comparison of ODEQ8 & Method 5 in report; not in database.
				Comparison of ODEQ8 & Method 5 in report; not in database.
				Comparison of ODEQ8 & Method 5 in report; not in database.

MDF - PARTICULATE MATTER (PM) TABLE, page 2a

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
227-031392A	2D227	3	PM	M5	OUT		0.086	75.3	13.57
227-031492A	1D227	1	PM	M5	OUT		0.124	98.5	16.17
227-031492A	1D227	2	PM	M5	OUT		0.112	92.4	15.35
227-031592A	2P227	1	PM	M5	OUT		0.00178	2.59	
227-031592A	2P227	2	PM	M5	OUT		0.0026	3.81	
227-031592A	2P227	3	PM	M5	OUT		0.0027	3.91	
227-031792A	1P227	1	PM	M5	OUT		0.0023	2.87	
227-031792A	1P227	2	PM	M5	OUT		0.0017	2.17	
227-031792A	1P227	3	PM	M5	OUT		0.0023	2.99	

MDF - PARTICULATE MATTER (PM) TABLE, page 2b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
			.12 lb/TFP	TFP = Ton of Finished Product
			.18 lb/TFP	TFP = Ton of Finished Product
			.19 lb/TFP	TFP = Ton of Finished Product
			.21 lb/TFP	TFP = Ton of Finished Product
			.16 lb/TFP	TFP = Ton of Finished Product
			.22 lb/TFP	TFP = Ton of Finished Product

MDF - PM + CPM (TOTAL PARTICULATE) TABLE, page 1a of 1(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
027-051793A	1P027	1	PM&CPM	M5/202	OUT			2.947	
027-051793A	1P027	2	PM&CPM	M5/202	OUT			3.756	
027-051893A	1P027	1	PM&CPM	M5/202	OUT			6.852	
027-051893A	1P027	2	PM&CPM	M5/202	OUT			6.275	
121-052688A	1D121	1	PM&CPM	M5/202	OUT		0.037	26.1	1.91
121-052688A	1D121	2	PM&CPM	M5/202	OUT		0.042	29.6	2.16
121-052688A	1D121	3	PM&CPM	M5/202	OUT		0.032	22.8	1.66
121-052788A	2D121	1	PM&CPM	M5/202	OUT		0.037	25.9	2.73
121-052788A	2D121	2	PM&CPM	M5/202	OUT		0.033	23.5	2.47
121-052788A	2D121	3	PM&CPM	M5/202	OUT		0.033	23.1	2.43
121-062889A	1D121	1	PM&CPM	M5/202	OUT			19.4	1.23
121-062889A	1D121	2	PM&CPM	M5/202	OUT			20.8	1.27
121-062889A	1D121	3	PM&CPM	M5/202	OUT			13.6	0.824
121-062989A	2D121	1	PM&CPM	M5/202	OUT			26.6	7.54
121-062989A	2D121	2	PM&CPM	M5/202	OUT			22.6	5.38
121-062989A	2D121	3	PM&CPM	M5/202	OUT			39	6.5
173-092592A	1D173	1	PM&CPM	M5/202	OUT		0.0274	20.4	2.26
173-092592A	1D173	2	PM&CPM	M5/202	OUT		0.0212	17.1	1.82
173-092592A	1D173	3	PM&CPM	M5/202	OUT		0.0277	22.5	2.58
227-031192A	4D227	1	PM&CPM	M5/202	OUT		0.0552	30.6	3.68
227-031192A	4D227	2	PM&CPM	M5/202	OUT		0.0499	28.2	3.41
227-031192A	4D227	3	PM&CPM	M5/202	OUT		0.0498	28.6	3.34
227-031292A	3D227	1	PM&CPM	M5/202	OUT		0.15	81	10.57
227-031292A	3D227	2	PM&CPM	M5/202	OUT		0.145	78.4	9.87
227-031292A	3D227	3	PM&CPM	M5/202	OUT		0.123	66	11.89
227-031292B	1F227	1	PM&CPM	M5/202	OUT		1.19	88.3	
227-031292B	1F227	2	PM&CPM	M5/202	OUT		0.952	71.4	
227-031292B	1F227	3	PM&CPM	M5/202	OUT		1.044	74.8	
227-031392A	2D227	1	PM&CPM	M5/202	OUT		0.073	64.4	12.8
227-031392A	2D227	2	PM&CPM	M5/202	OUT		0.1	88.6	15.99
227-031392A	2D227	3	PM&CPM	M5/202	OUT		0.09	79	14.23
227-031492A	1D227	1	PM&CPM	M5/202	OUT		0.129	102.8	16.88
227-031492A	1D227	2	PM&CPM	M5/202	OUT		0.12	98.5	16.36
227-031592A	2P227	1	PM&CPM	M5/202	OUT		0.0041	6.09	
227-031592A	2P227	2	PM&CPM	M5/202	OUT		0.0047	6.93	
227-031592A	2P227	3	PM&CPM	M5/202	OUT		0.0044	6.39	
227-031792A	1P227	1	PM&CPM	M5/202	OUT		0.0042	5.37	
227-031792A	1P227	2	PM&CPM	M5/202	OUT		0.0037	4.75	
227-031792A	1P227	3	PM&CPM	M5/202	OUT		0.0046	5.93	

MDF - PM + CPM (TOTAL PARTICULATE) TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
		0.214		
		0.272		
		0.476		
		0.436		
			0.29 lb/TFP	
			0.33 lb/TFP	
			0.30 lb/TFP	
			0.39 lb/TFP	
			0.34 lb/TFP	
			0.43 lb/TFP	

MDF - PM_{10} TABLE, page 1a of 1(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
027-051893A	1P027	1	PM10	M201A	OUT			3.46	
027-051893A	1P027	2	PM10	M201A	OUT			3.07	
121-062889A	1D121	1	PM10	M201/201A	OUT			9.1	0.581
121-062889A	1D121	2	PM10	M201/201A	OUT			8.7	0.53
121-062889A	1D121	3	PM10	M201/201A	OUT			7.2	0.437
121-062989A	2D121	1	PM10	M201/201A	OUT			15.8	3.26
121-062989A	2D121	2	PM10	M201/201A	OUT			5.5	1.32
121-062989A	2D121	3	PM10	M201/201A	OUT			6.8	1.13
173-091092C	1C173	1	PM10	M201A	OUT		2.08E-04	0.0543	
173-091092C	1C173	2	PM10	M201A	OUT		1.98E-04	0.0535	
173-091092C	1C173	3	PM10	M201A	OUT		5.86E-05	0.0153	
173-091092G	1P173	1	PM10	M201A	OUT		0.00407	1.032	
173-091092G	1P173	2	PM10	M201A	OUT		0.004	0.857	
173-091092G	1P173	3	PM10	M201A	OUT		0.0037	1.012	
173-092592B	1D173	1	PM10	M201A	OUT	0.00115		0.998	0.13
173-092592B	1D173	2	PM10	M201A	OUT	0.00104		0.893	0.121
173-092592B	1D173	3	PM10	M201A	OUT	0.0059		4.9	0.574
227-031192A	4D227	1	PM10	M201A	OUT		0.006	3.4	0.41
227-031192A	4D227	2	PM10	M201A	OUT		0.005	2.6	0.31
227-031192A	4D227	3	PM10	M201A	OUT		0.007	4	0.47
227-031292A	3D227	1	PM10	M201A	OUT		0.018	10.8	1.41
227-031292A	3D227	2	PM10	M201A	OUT		0.006	3.8	0.48
227-031292A	3D227	3	PM10	M201A	OUT		0.01	6	0.73
227-031392A	2D227	1	PM10	M201A	OUT		0.024	21.1	4.19
227-031392A	2D227	2	PM10	M201A	OUT		0.0135	11.2	2.02
227-031392A	2D227	3	PM10	M201A	OUT		0.013	10.7	1.93
227-031492A	1D227	1	PM10	M201A	OUT		0.016	11.5	1.89
227-031492A	1D227	2	PM10	M201A	OUT		0.022	16.6	2.76

MDF - PM_{10} TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
		0.24		
		0.213		
				Modified M201A; not true method 201A.
				Modified M201A; not true method 201A.
				Modified M201A; not true method 201A.
				Modified M201A; not true method 201A.
				Modified M201A; not true method 201A.
				Modified M201A; not true method 201A.
		0.00621		Press and cooler emissions are separate, not summed.
		0.00374		Press and cooler emissions are separate, not summed.
		0.00132		Press and cooler emissions are separate, not summed.
		0.0806		Press and cooler emissions are separate, not summed.
		0.0659		Press and cooler emissions are separate, not summed.
		0.0778		Press and cooler emissions are separate, not summed.
				Can compare to concurrent Method 5/202 data.
				Can compare to concurrent Method 5/202 data.
				Can compare to concurrent Method 5/202 data.
				Can compare to concurrent Method 5/202 data.
				Can compare to concurrent Method 5/202 data.
				Can compare to concurrent Method 5/202 data.
				Can compare to concurrent Method 5/202 data.
				Can compare to concurrent Method 5/202 data.
				Can compare to concurrent Method 5/202 data.
				Can compare to concurrent Method 5/202 data.
				Can compare to concurrent Method 5/202 data.

MDF - PM_{10} + CPM TABLE, page 1a of 1(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
121-062889A	1D121	1	PM10&CPM	M201A/202	OUT			10.8	0.69
121-062889A	1D121	2	PM10&CPM	M201A/202	OUT			10.7	0.65
121-062889A	1D121	3	PM10&CPM	M201A/202	OUT			7.7	0.47
121-062989A	2D121	1	PM10&CPM	M201A/202	OUT			16.5	3.4
121-062989A	2D121	2	PM10&CPM	M201A/202	OUT			6.5	1.55
121-062989A	2D121	3	PM10&CPM	M201A/202	OUT			26.3	4.38
173-091092C	1C173	1	PM10&CPM	M201A/202	OUT		0.00284	0.741	
173-091092C	1C173	2	PM10&CPM	M201A/202	OUT		0.00207	0.561	
173-091092C	1C173	3	PM10&CPM	M201A/202	OUT		0.0019	0.497	
173-091092G	1P173	1	PM10&CPM	M201A/202	OUT		0.0114	2.997	
173-091092G	1P173	2	PM10&CPM	M201A/202	OUT		0.00717	1.996	
173-091092G	1P173	3	PM10&CPM	M201A/202	OUT		0.027	6.18	

MDF - PM_{10} + CPM TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
		0.0847		Press and cooler emissions are separate, not summed.
		0.0392		Press and cooler emissions are separate, not summed.
		0.0428		Press and cooler emissions are separate, not summed.
		0.234		Press and cooler emissions are separate, not summed.
		0.154		Press and cooler emissions are separate, not summed.
		0.475		Press and cooler emissions are separate, not summed.

MDF - VOC (as Carbon) TABLE, page 1a of 1(a-b)

Test Code	Unit Code	Run	Pollutant	Method	Sam. Loc.	ppm	gr/dscf	lb/hr	lb/ODT
027-051893A	1P027	1	VOC	M25A	OUT			4.52	
027-051893A	1P027	2	VOC	M25A	OUT			5.05	
173-091192F	1C173	1	VOC	M25A	OUT	16.95		0.916	
173-091192F	1C173	2	VOC	M25A	OUT	17.25		0.859	
173-091192F	1C173	3	VOC	M25A	OUT	17.85		0.892	
173-091192H	1P173	1	VOC	M25A	OUT	89.4		5.43	
173-091192H	1P173	2	VOC	M25A	OUT	67.4		4.19	
173-091192H	1P173	3	VOC	M25A	OUT	65.4		4.42	
173-092592C	1D173	1	VOC	M25A	OUT	34.8		5.67	0.613
173-092592C	1D173	2	VOC	M25A	OUT	38.7		6.88	0.744
173-092592C	1D173	3	VOC	M25A	OUT	34.2		6.15	0.705
192-020194B	1D192	1	VOC	M25A	OUT		203	41.5	2.87
192-020194B	1D192	2	VOC	M25A	OUT		191	40.3	2.75
192-020194B	1D192	3	VOC	M25A	OUT		203	41.9	2.77
192-020194C	2D192	1	VOC	M25A	OUT		345	63.3	5.04
192-020194C	2D192	2	VOC	M25A	OUT		294	53.4	4.31
192-020194C	2D192	3	VOC	M25A	OUT		306	55.8	4.35
227-031692A	2P227	1	VOC	M25A	OUT	18.2		6.53	
227-031692A	2P227	2	VOC	M25A	OUT	14.7		5.17	
227-031692A	2P227	3	VOC	M25A	OUT	14.3		4.85	
227-031892A	1P227	1	VOC	M25A	OUT	19.1		5.52	
227-031892A	1P227	2	VOC	M25A	OUT	20		6.05	
227-031892A	1P227	3	VOC	M25A	OUT	16.7		5.13	
227-031992A	2D227	1	VOC	M25A	OUT	147		26.4	4.71
227-031992A	2D227	2	VOC	M25A	OUT	174		31.2	5.52
227-031992A	2D227	3	VOC	M25A	OUT	169		31.9	5.92
227-032092A	3D227	1	VOC	M25A	OUT	361		49.75	5.65
227-032092A	3D227	2	VOC	M25A	OUT	303		38.78	4.3
227-032092A	3D227	3	VOC	M25A	OUT	292		38.78	4.32
227-032092B	4D227	1	VOC	M25A	OUT	302		39.6	4.44
227-032092B	4D227	2	VOC	M25A	OUT	266		35.18	4.4
227-032092B	4D227	3	VOC	M25A	OUT	350		44.67	5.04
227-032192A	1D227	1	VOC	M25A	OUT	131		22.2	4.32
227-032192A	1D227	2	VOC	M25A	OUT	139		24.3	4.73

MDF - VOC (as Carbon) TABLE, page 1b

lb/MMBtu	lb/MSF 3/8	lb/MSF 3/4	Other (Units)	Comments
		0.314		
		0.351		
		0.0705		Press and cooler emissions are separate, not summed.
		0.0722		Press and cooler emissions are separate, not summed.
		0.075		Press and cooler emissions are separate, not summed.
		0.418		Press and cooler emissions are separate, not summed.
		0.352		Press and cooler emissions are separate, not summed.
		0.371		Press and cooler emissions are separate, not summed.
			0.33 lb/TFP	TFP = Ton of Finished Product
			0.26 lb/TFP	TFP = Ton of Finished Product
			0.25 lb/TFP	TFP = Ton of Finished Product
			0.42 lb/TFP	TFP = Ton of Finished Product
			0.44 lb/TFP	TFP = Ton of Finished Product
			0.37 lb/TFP	TFP = Ton of Finished Product

APPENDIX C

CODE TABLES

APPENDIX C

CODE TABLES

TABLE OF CONTENTS

TABLE C-1 DRYER FIRING TYPE CODES

CODE	DEFINITION
BOTH	Both Direct Fired and Indirect Heat
DFIRE	Direct Fired; Includes Suspension Burners, Gas Burners, Fuel Cells and Other Combustion Sources Whose Combustion Gases Directly Contact the Wood Furnish
IHEAT	Indirect Heat; Usually from Steam or Thermal Oil

TABLE C-2 DRYER HEAT SOURCE CODES

CODE	DEFINITION
BOTH	Both Direct Fired and Indirect Heat
DFIRE	Direct Fired; Includes Suspension Burners, Gas Burners, Fuel Cells and Other Combustion Sources Whose Combustion Gases Directly Contact the Wood Furnish
FLUE GAS	Combustion Unit Gases Directly Contact Furnish; Usually from a Fuel Cell
GAS B	Gas Burner
IHEAT	Indirect Heat; Usually from Steam or Thermal Oil
RFREQ	Radio Frequency
SUSP BU	Suspension Burner

TABLE C-3 DRYER TYPE CODES

CODE	DEFINITION
JET	Jet
LFLOW	Longitudinal Flow
PANEL	Panel
PLAT	Platen
RFREQ	Radio Frequency
RSP	Rotary Single Pass
RTP	Rotary Triple Pass
RU	Rotary Unspecified
TUBE	Tube Type

TABLE C-4 FUEL TYPE CODES

CODE	DEFINITION
MDF	MDF Scraps
DFINE	Dry Fines, Unspecified. May or May Not Contain Resin.
STEAM	Steam
TRIM	Trim
SDUST	Sanderdust
NGAS	Natural Gas
WREF	Wood Refuse or Wood Waste, Unspecified. May or May Not Contain Resin.
BARK	Bark
OIL	Oil
SAWD	Sawdust
FINES	Fines, Unspecified. May or May Not Contain Resin.
WDUST	Wood Dust, Unspecified. May or May Not Contain Resin.
BSG	Boiler Stack Gas

TABLE C-5 POLLUTANT CODES

CODE	DEFINITION
111-T-CH-E	1,1,1-Trichloroethane
124TMBENZ	1,2,4-Trimethyl Benzene
2-5-DMBENZ	2,5 Dimethyl Benzaldehyde
4-M-2-PENT	4-Methyl-2-Pentanone
44METDIAN	4,4 Methylene Dianiline
A-PINENE	Alpha Pinene
A-TERPENE	Alpha Terpeneol
ACETALD	Acetaldehyde
ACETONE	Acetone
ACETPH	Acetophenone
ACROLEIN	Acrolein
ACRYLNIT	Acrylonitrile
ALD/KET	Aldehydes/Ketones (Generally from Method 0011)
B-PINENE	Beta Pinene
BENZALD	Benzaldehyde
BENZENE	Benzene
BIPHENYL	Biphenyl
BIS-2EH-PH	Bis-(2-Ethylhexyl Phthalate)
BROMOMET	Bromomethane
BUTBENPHTH	Butylbenzyl Phthalate
BUTYLALDEH	Butylaldehyde
CARBDIS	Carbon Disulfide
CARBTETCHL	Carbon Tetrachloride
CHLOROFORM	Chloroform
CHLOROMET	Chloromethane
CO	Carbon Monoxide

TABLE C-5 POLLUTANT CODES (Cont'd)

CODE	DEFINITION
CO2	Carbon Dioxide
CPM	Condensible Particulate Matter, Back Half Only
CROTONALDE	Crotonaldehyde
D-N-BUT-PH	Di-N-Butyl Phthalate
DBM	Dibromomethane
DMS	Dimethyl Sulfide
ETYLBENZ	Ethyl Benzene
FOR	Formaldehyde
HAPS	"Catch All" Category, Generally Involves Testing for "Hazardous Air Pollutants"
HEXALD	Hexaldehyde
HYDROQUIN	Hydroquinone
ISOOCTANE	Isooctane
ISOVALALD	Isovaleraldehyde
M-P-XYLENE	m,p Xylene
M-TOLALD	m-Tolualdehyde
MDI	Methylene Bisphenyl Isocyanate
MEK	Methyl Ethyl Ketone
METH	Methane
METHENECHL	Methylene Chloride
N-BUTYRALD	N-Butyraldehyde
N-HEXANE	N-Hexane
NAPHTHALENE	Naphthalene
NITROBENZ	Nitrobenzene
NOX	Nitrogen Oxides
O-TOLALD	o-Tolualdehyde

TABLE C-5 POLLUTANT CODES (Cont'd)

CODE	DEFINITION
O-XYLENE	o-Xylene
P-CYMEME	p-Cymene
P-TOLALD	p-Tolualdehyde
PHENOL	Phenol
PM	Particulate Matter, Filterable Particulate, Front Half Only
PM10	PM10, Particulate Matter less than 10 Microns
PM10&CPM	Particulate Matter less than 10 Microns, Includes Condensible Particulate Matter (Back Half)
PROPIONALD	Propionaldehyde
SO2	Sulfur Dioxide
STYRENE	Styrene
T-FL-METH	Trichlorofluoromethane
T1-4-DCBUT	Trans 1,4 Dichlorobutene
TOLUENE	Toluene
VALALD	Valeraldehyde
VINYLACET	Vinyl Acetate
VOC	Volatile Organic Compounds, Sometimes Called TOC or THC

TABLE C-6 POLLUTION CONTROL DEVICE CODES

CODE	DEFINITION
BIO	Biofilter
CYC	Cyclone
EFB	Electrified Filter Bed, Electrified Gravel Bed
ESP	Electrostatic Precipitator
FFIL	Fabric Filter or Baghouse
INC	Incinerator
MCLO	Multiclone
NONE	None, No Pollution Control Device
PBA	Packed Bed Absorber
RTO	Regenerative Thermal Oxidizer
SCRB	Scrubber
SF	Sand Filter
VSC	Venturi Scrubber
WESP	Wet Electrostatic Precipitator
WSCR	Wet Scrubber

TABLE C-7 PRODUCT CODES

CODE	DEFINITION
FS	Fiberboard Sheathing
HB	Hardboard
LU	Lumber
MDF	Medium Density Fiberboard
OSB	Oriented Strandboard (for Database, Includes Waferboard
PB	Particleboard
PLY-H	Hardwood Plywood
PLY-S	Softwood Plywood
RIB	Roof Insulation Board

TABLE C-8 RESIN TYPE CODES

CODE	DEFINITION
LIQUID PF	Liquid Phenol-Formaldehyde
MDI	MDI
PF	Phenol-Formaldehyde
SEE COMM	Used to Refer User to Comments Section of Table
UF	Urea-Formaldehyde

TABLE C-9 STACK TEST METHOD CODES

CODE	DEFINITION
?	Unknown, Method Not Provided in Submittal
G5T	Georgia 5T (Similar to ODEQ-7)
M0010	SW-846 Method 0010, Often Termed Semi-VOST or MM5
M0011	BIF Method 0011, for Aldehydes and Ketones, 40 CFR 266 Appendix IX
M0030	SW-846 Method 0030, Termed VOST, Volatile Organic Sampling Train
M1	EPA Method 1
M10	EPA Method 10
M10B	EPA Method 10B
M18	EPA Method 18
M2	EPA Method 2
M201/201A	Modification of Method 201A
M201/202	EPA Methods 201 and 202, PM10 Front and Back Half
M201A	EPA Method 201A
M201A/202	EPA Methods 201A and 202, PM 10 Front and Back Half
M201A/OD7	EPA Method 201A with ODEQ 7 Back Half
M202	EPA Method 202
M25	EPA Method 25
M25A	EPA Method 25A
M25M	Modification of Method 25A
M3	EPA Method 3
M4	EPA Method 4
M5	EPA Method 5
M5/202	EPA Methods 5 and 202, Front and Back Half

TABLE C-9 STACK TEST METHOD CODES (Cont'd)

CODE	DEFINITION
M5/OD7	EPA Method 5 with ODEQ Method 7 Back Half
M5A	EPA Method 5A - Back Half
M5X	EPA Method 5 Type Train with NaOH in the Impingers
M6	EPA Method 6
M604	Method 604 (Phenol)
M7C	EPA Method 7C
M7E	EPA Method 7E
MGC	A Gas Chromatographic Method, Unspecified
MM0011	Modified BIF Method 0011
MM5	A Modification of Method 5
MN3500	Modified NIOSH 3500
N347	NIOSH P&CAM 347
N3500	NIOSH Method 3500
NM1501	NIOSH Method 1501
OD5	ODEQ 5
OD7	ODEQ 7
OD8	ODEQ 8
P&CAM125	P&CAM 125
TO-11	TO-11 (Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air)
TO-5	TO-5 (Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air)
TO-8	TO-8 (Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air)

TABLE C-10 WOOD MATERIALS FORM CODES

CODE	DEFINITION
CHP	Chips
DCHP	Debarked Chips
FIBR	Fiber
LOG	Logs
LUMB	Lumber
PSHAV	Planar Shavings
SAWD	Sawdust
SF	Strands or Flakes
SHAV	Shavings
SKERF	Saw Kerf
TRIM	Trim
VENE	Veneer
WTC	Whole Tree Chips

TABLE C-11 WOOD SPECIES CODES

CODE	DEFINITION
ASPEN	Aspen
DFIR	Douglas Fir
GUM	Gum
HWOOD	Unspecified Hardwood
LARCH	Larch
LOB P	Loblolly Pine
LODGE P	Lodgepole Pine
MAPLE	Maple
OAK	Oak
PINE SP	Unknown Pine Species (Specific Information Not Provided)
POND P	Ponderosa Pine
POPLAR	Poplar
REDW	Redwood
SPRUCE	Spruce
SWOOD	Unspecified Softwood
SY PINE	Southern Yellow Pine (Mixed or Unspecified Southern Pines)
UFIR	Unspecified Fir
UWOOD	Wood from Urban Recycling Plant
WFIR	White Fir
HEM	Hemlock

APPENDIX D

GLOSSARY AND COLUMN HEADINGS

APPENDIX D

GLOSSARY AND COLUMN HEADINGS

% Free Formaldehyde - Best defined as percent free formaldehyde as determined by Wood Adhesives Manufacturers Technical Association (WAMTA) Methods 10.1 and 11.1.

% Fuel - Provides information on the percentage of total heat input supplied by the fuel (specified in the column to the left).

% Species - The approximate percentage of each wood species referred to in the previous column.

Amount Fuel - Provides information on the amount of fuel (specified in the column to the left) that was combusted. Units are not consistent and are specified within the column.

Any Catalyst or Scavenger? - A "Y" or "N" answer is provided to answer the question, "Are any catalysts or scavengers used?"

Application Rate - The rate at which the adhesive (specified in the column to the left) is applied. Units are inconsistent and specified within the column.

Board Density (lb/ft^3) - The density of the panel being pressed during the testing period.

Core and Surface Different? - A "Y" or "N" answer is provided to answer the question, "Is the resin type and application rate different for the core and surface layers?"

Core, Surface, or Both - A "C," "S," or "B" answer is provided to the question, "Is the dryer producing material for the core of the panel, the surface of the panel or both?"

Dryer Capacity - Information is shown as provided in mixed units. In some cases units were not provided. A strict definition of capacity was not given in the survey, therefore the basis for the given capacities is unknown (nameplate, maximum, etc.).

Dryer Type - General type or configuration of the dryer. Code definitions are provided in Table C-3 in Appendix C.

Fac Code - Facility Code. Three digit code assigned to each mill. The facility code is part of all test codes and unit codes associated with the specific mill.

Field - Database lingo for a column in a table.

Final PCD - Final Pollution Control Device. If only one control device exists, it is coded as a Final PCD. If two exist, they are coded as Initial and Final PCDs. If a series of three PCDs

are shown, the data provided in the column have inconsistent units and the unit is provided. Otherwise the units are specified. Unit explanations are included in this glossary.

Q/C? - A "Y" or "N" answer is provided to the question, "Is there a quench or cooling section for the dryer exhaust?"

Query - Database lingo for a structured question to be "answered" by the database.

Raw Wood Mat'l - Raw Wood Material. The form in which the mill receives its wood. Code definitions are provided in Table C-10 in Appendix C.

Record - Database lingo for a row of information in a table.

Recycled? - A "Y" or "N" answer is provided to the question, "Is any of the exhaust from the dryer recycled back into the burner or dryer?"

Run - The assigned sample run number.

Sam. Loc. - Sample Location. Provides information on the sample location relative to a control device. IN indicates inlet to the control device. OUT indicates outlet from a control device as well as outlet to the atmosphere (for those cases in which a control device does not exist).

Size and Openings - Provides a description of the press area in feet and information on the number of openings. For example, 10 x 25 5 openings describes a press that is 10 feet wide, 25 feet long and has 5 openings.

Stack Flow (dscfm) - The air flow rate at the sampling point, provided in the unit of dry standard cubic feet per minute.

Stack Moisture (%) - The percent moisture (by volume) at the sample point.

Stack Temperature (F) - The temperature in Fahrenheit at the sample point.

Test Code - Please see Section III C. (3).

Type Adhesive - The type of resin or adhesive used during the testing period. Code definitions are provided in Table C-8 in Appendix C.

Type Fuel - Type of fuel burned by the particular unit. "A" Tables provide capabilities and general usage, "B" Tables provide specific run-by-run fuel information. Code definitions are provided in Table C-4 in Appendix C.

Unit Code - Please see Section III C. (2).

Wax Application Rate - The rate at which wax was applied. Units are inconsistent and specified within the column.

Wood Species - The type of wood used. The General Information table indicates wood type generally used at the mill. Run-by-run specific wood use is provided in the "B" tables. Code definitions are provided in Table C-11 in Appendix C.

APPENDIX E

DATABASE ORDER FORM

APPENDIX E

DATABASE ORDER FORM

REQUEST FOR WOOD PRODUCTS AIR EMISSION DATABASE ON DISKETTE

Please send diskettes to:

Name _____

Company _____

Address _____

_____

Type of Diskette:

5.25" _____ 3.5" _____

Send the:

MDF Database _____
OSB Database _____
Particleboard Database _____
Plywood Database _____
Boiler Database _____

All of the Above _____

Software Format:

		Version
Paradox 5.0 for Windows	_____	
Paradox 4.0 for Dos	_____	
dBASE (*.dbf)	_____	_____
Quattro	_____	_____
Lotus	_____	_____
Excel	_____	_____
Delimited Text	_____	
Fixed Length Text	_____	

(NOTE: The databases exist as Paradox 5.0 for Windows files. If your software can directly read Paradox 5.0 for Windows, the database should be ordered in that format. If your software reads Paradox 4.0 or higher for DOS or any Paradox for Windows version (except 5.0) you should order the Paradox 4.0 for DOS version. If you order a dBASE version, the data will transfer well but some of the headings will change slightly. Spreadsheet versions will require more reformatting and restructuring than any of the database versions.)

Send this request to:

Dr. David H. Word
NCASI
P. O. Box 141020
Gainesville, Florida 32614-1020

Fax: 904-371-6557