

# PERMIT TO OPERATE

NCU 005-08

HAMBRO FOREST PRODUCTS  
CRESCENT CITY, CA

MAY 3, 2000

NORTH COAST UNIFIED  
AIR QUALITY  
MANAGEMENT DISTRICT

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NORTH COAST UNIFIED AIR QUALITY MANAGEMENT DISTRICT

PERMIT TO OPERATE

NCU 005-08

HAMBRO FOREST PRODUCTS

**LEGAL OWNER OR OPERATOR:** Hambro Forest Products, Inc.  
PO Box 129  
Crescent City, CA 95531  
Responsible Official: Dwayne Reichlin  
Plant Contact: Robert Matthes  
707/464-6131

**BUSINESS ACTIVITY:** Hambro Forest Products is a particleboard manufacturing mill. The mill receives raw material wood wastes consisting mostly of sawdust and shavings which are processed into fine wood particles. These wood particles are dried to remove moisture prior to mixing with wax, scavenger chemicals, resin, catalyst and other materials. The treated wood particles are then formed into mats for pressing into particleboard of various thicknesses. The boards are then moved to the finishing area of the mill for surface preparation and board sizing prior to packaging and shipping. This particleboard plant has four separate processes: Material Preparation, Wood Flake Drying, Forming, and Finishing.

**EQUIPMENT LOCATED AT:** The plant is located on Elk Valley Road in Crescent City in the northwestern portion of California within the County of Del Norte. Crescent City is about 20 miles south of the Oregon border.

Whereas an application for a Permit to Operate has been made by Hambro Forest Products, Inc. (hereinafter called the Permittee) pursuant to Regulation 5 (implementation of federal Title V operating permits) of the Rules and Regulations of the North Coast Unified Air Quality Management District (hereinafter called the District), and said application has been reviewed and found complete by the Air Pollution Control Officer of said District (hereinafter referred to as the Control Officer or NCUAQMD).

Unless otherwise noted, all requirements in this PERMIT are federally enforceable.

This is your Permit to Operate (hereinafter called PERMIT) subject to the following terms and conditions:

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## LIST OF ABBREVIATIONS

Administrator	Administrator of the Environmental Protection Agency
Act	Clean Air Act
CARB	California Air Resources Board
CEMS	continuous emissions monitoring system
CFR	Code of federal regulations
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
dscf	dry standard cubic foot
deg. F	degrees Fahrenheit
District	North Coast Unified Air Quality Management District
EPA	U.S. Environmental Protection Agency
gpm	gallons per minute
gr/acf	grains per actual cubic foot
gr/dscf	grains per dry standard cubic foot
lbs/hr	pounds per hour
MMBtu	million British thermal units
NO <sub>x</sub>	nitrogen oxides
NSPS	New Source Performance Standards
O <sub>2</sub>	oxygen
pH	hydrogen ion concentration in a solution
ppmv	parts per million by volume
PSD	Prevention of Significant Deterioration
tpy	tons per year
unit	single emissions unit

## A. Material Preparation Process

(1) Permit Number - NC-013(Collector)

Name - Reclaim, #6

I. **BASIC EQUIPMENT** - A transfer collector to move wood particles from the #15 collection system to a bin for use in the production of particleboard. A 20 HP blower is used to pneumatically convey the wood particles to a 64 inch diameter cyclone collector. The exhaust air from the collector is discharged directly to the atmosphere while the wood particles gravity feed to a storage bin.

II. **CONTROL EQUIPMENT** - None.

III. **EMISSIONS LIMITATIONS**

A. **Particulate Matter**

1. **Particulate loading** -

a. The permittee shall not discharge particulate matter into the atmosphere in excess of 0.20 gr/cf of exhaust gas.

b. All permit units which are a part of the Material Preparation Process shall not discharge particulate matter in total quantities exceeding the following:  
emission rate(lbs/hr) = 2.58[process weight rate]<sup>0.67</sup> where the process weight rate is the weight in 1000 lbs/hr of raw material introduced into the initial predrier.

[Regulation 1, Rule 420(e) adopted 1/19/89 and SIP Rule 420(d)].

2. **Visible emissions** - see General Provisions, section L.

3. **Fugitive Dust** - see General Provisions, section L

IV. **COMPLIANCE MONITORING**

A. The following methods shall be used for determining compliance with the above emissions limitations:

1. **Particulate Matter** - The permittee shall perform at least once per permit term a source test by Oregon DEQ Method 8. A contractor shall be hired to perform such a test. An engineering evaluation will be allowed utilizing the District's emission factors for collectors which provides grain loading vs. opacity(Figure I) in support of a test exclusion. Such exclusion will be granted should the evaluation indicate emissions are less than one-half the allowable particulate matter limit of Section III.A.1.a and less than Section III.A.1.b[Regulation 1, Rule 240].

2. **Visible Emissions** - Federal Method 9. The permittee shall perform a "Visible Emission Evaluation"(VEE) at least once per quarter while the system is in operation. A CARB certified contractor or the District shall be hired to perform such an evaluation[Regulation 1, Rule 240(h)].

3. **Fugitive Dust** - The permittee shall conduct inspections of the basic equipment on a weekly basis(7 day schedule). No more than five weekly inspections per calendar year may be missed.

a. Any notable blow pipe or collector leak of exhaust gas prior to the discharge point to the atmosphere shall be repaired within 24 hours upon detection.

b. Wood particles deposited on the roof of any building or elsewhere shall be removed within 24 hours upon detection.

[Regulation 1, Rule 240(d)].

V. **REPORTING AND RECORDKEEPING** - see General Provisions, section F.

A. A log shall be maintained which specifies the initials of the person inspecting the system, date and time inspected, location of any leak found, and date and time of repair.

B. No monitoring other than indicated shall be required for this permit unit.

C. The permittee shall maintain data on particleboard production from each press including board weights and press cycle times, and the moisture of the raw material feed to the furnish driers.

VI. **OPERATING CONDITIONS** - see General Provisions, section C.

A. The permittee shall not operate the system should the collector(s) become plugged which causes wood particles to be blown to the atmosphere. Once the system is found to be plugged, the permittee shall stop all pertinent process operations and remove the plug prior to further operation. Such system failures shall be reported to the District in accordance with Rule 540, Breakdown Procedures.

(2) Permit Number - NC-014(Collector)

Name - Chip Infeed, #13

I. **BASIC EQUIPMENT** - A raw material feed system to move wood particles from storage to a bin for use in the production of particleboard. A 20 HP blower is used to pneumatically convey the wood particles to a 66 inch diameter cyclone collector. The exhaust air from the collector is discharged directly to the atmosphere while the wood particles gravity feed to a storage bin.

II. **CONTROL EQUIPMENT** - None.

III. **EMISSIONS LIMITATIONS**

A. **Particulate Matter**

1. **Particulate loading** -

a. The permittee shall not discharge particulate matter into the atmosphere in excess of 0.20 gr/cf of exhaust gas.

b. All permit units which are a part of the Material Preparation Process shall not discharge particulate matter in total quantities exceeding the following:

emission rate(lbs/hr) = 2.58[process weight rate]<sup>0.67</sup> where the process weight rate is the weight in 1000 lbs/hr of raw material introduced into the initial predrier.

[Regulation 1, Rule 420(e) adopted 1/19/89 and SIP Rule 420(d)].

2. **Visible emissions** - see General Provisions, section L.

3. **Fugitive Dust** - see General Provisions, section L

IV. **COMPLIANCE MONITORING**

A. The following methods shall be used for determining compliance with the above emissions limitations:

1. **Particulate Matter** - The permittee shall perform at least once per permit term a source test by Oregon DEQ Method 8. A contractor shall be hired to perform such a test. An engineering evaluation will be allowed utilizing the District's emission factors for collectors which provides grain loading vs. opacity(Figure I) in support of a test exclusion. Such exclusion will be granted should the evaluation indicate emissions are less than one-half the allowable particulate matter limit of Section III.A.1.a and less than Section III.A.1.b[Regulation 1, Rule 240].

2. **Visible Emissions** - Federal Method 9. The permittee shall perform a "Visible Emission Evaluation"(VEE) at least once per quarter while the system is in operation. A CARB certified contractor or the District shall be hired to perform such an evaluation[Regulation 1, Rule 240(h)].

3. **Fugitive Dust** - The permittee shall conduct inspections of the basic equipment on a weekly basis(7 day schedule). No more than five weekly inspections per calendar year may be missed.

a. Any notable blow pipe or collector leak of exhaust gas prior to the discharge point to the atmosphere shall be repaired within 24 hours upon detection.

b. Wood particles deposited on the roof of any building or elsewhere shall be removed within 24 hours upon detection.

[Regulation 1, Rule 240(d)].

V. **REPORTING AND RECORDKEEPING** - see General Provisions, section F.

A. A log shall be maintained which specifies the initials of the person inspecting the system, date and time inspected, location of any leak found, and date and time of repair.

B. No monitoring other than indicated shall be required for this permit unit.

C. The permittee shall maintain data on particleboard production from each press including board weights and press cycle times, and the moisture of the raw material feed to the furnish driers.

VI. **OPERATING CONDITIONS** - see General Provisions, section C.

A. The permittee shall not operate the system should the collector(s) become plugged which causes wood particles to be blown to the atmosphere. Once the system is found to be plugged, the permittee shall stop all pertinent process operations and remove the plug prior to further operation. Such system failures shall be reported to the District in accordance with Rule 540, Breakdown Procedures.

(3) Permit Number - NC-050(Collector)

Name - Rotex Overs, #21

I. **BASIC EQUIPMENT** - A raw material feed system to move wood particles from storage to a bin for use in the production of particleboard. A 5 HP blower is used to pneumatically convey the wood particles to a 60 inch diameter cyclone collector. The exhaust air from the collector is discharged directly to the atmosphere while the wood particles gravity feed to a storage bin.

II. **CONTROL EQUIPMENT** - None.

III. **EMISSIONS LIMITATIONS**

A. **Particulate Matter**

1. **Particulate loading** -

a. The permittee shall not discharge particulate matter into the atmosphere in excess of 0.20 gr/cf of exhaust gas.

b. All permit units which are a part of the Material Preparation Process shall not discharge particulate matter in total quantities exceeding the following:

emission rate(lbs/hr) = 2.58[process weight rate]<sup>0.67</sup> where the process weight rate is the weight in 1000 lbs/hr of raw material introduced into the initial predrier.

[Regulation 1, Rule 420(e) adopted 1/19/89 and SIP Rule 420(d)].

2. **Visible emissions** - see General Provisions, section L.

3. **Fugitive Dust** - see General Provisions, section L

IV. **COMPLIANCE MONITORING**

A. The following methods shall be used for determining compliance with the above emissions limitations:

1. **Particulate Matter** - The permittee shall perform at least once per permit term a source test by Oregon DEQ Method 8. A contractor shall be hired to perform such a test. An engineering evaluation will be allowed utilizing the District's emission factors for collectors which provides grain loading vs. opacity(Figure I) in support of a test exclusion. Such exclusion will be granted should the evaluation indicate emissions are less than one-half the allowable particulate matter limit of Section III.A.1.a and less than Section III.A.1.b[Regulation 1, Rule 240].

2. **Visible Emissions** - Federal Method 9. The permittee shall perform a "Visible Emission Evaluation"(VEE) at least once per quarter while the system is in operation. A CARB certified contractor or the District shall be hired to perform such an evaluation[Regulation 1, Rule 240(h)].

3. **Fugitive Dust** - The permittee shall conduct inspections of the basic equipment on a weekly basis(7 day schedule). No more than five weekly inspections per calendar year may be missed.

a. Any notable blow pipe or collector leak of exhaust gas prior to the discharge point to the atmosphere shall be repaired within 24 hours upon detection.

b. Wood particles deposited on the roof of any building or elsewhere shall be removed within 24 hours upon detection.

[Regulation 1, Rule 240(d)].

V. **REPORTING AND RECORDKEEPING** - see General Provisions, section F.

A. A log shall be maintained which specifies the initials of the person inspecting the system, date and time inspected, location of any leak found, and date and time of repair.

B. No monitoring other than indicated shall be required for this permit unit.

C. The permittee shall maintain data on particleboard production from each press including board weights and press cycle times, and the moisture of the raw material feed to the furnish driers.

VI. **OPERATING CONDITIONS** - see General Provisions, section C.

A. The permittee shall not operate the system should the collector(s) become plugged which causes wood particles to be blown to the atmosphere. Once the system is found to be plugged, the permittee shall stop all pertinent process operations and remove the plug prior to further operation. Such system failures shall be reported to the District in accordance with Rule 540, Breakdown Procedures.

## B. Furnish Drying Process

(1) Permit Number - ND-255(Drier)

Name - Triple Pass Drier

I. **BASIC EQUIPMENT** - Guarantee Performance triple pass rotary drier used to pre-dry green furnish material for particleboard production. Heat for the drier is provided by two sources: (1) Partial exhaust gases from a 20,000 lbs/hr steam high pressure wood fired boiler, and (2) steam heated coils at the exhaust gas recirculation inlet to the drier. Exhaust gases may be recirculated back to the drier inlet, and a slip stream of exhaust gas removed utilizing dampers in the exhaust gas recirculation duct. A material separation box located on the exhaust/material outlet of the drier is vented to a large high efficiency cyclone collector containing a rotary air lock for fines removal prior to recirculation of exhaust gases and atmospheric venting.

II. **CONTROL EQUIPMENT** - None.

### III EMISSIONS LIMITATIONS

#### A. Particulate Matter

##### 1. Particulate loading -

a. The permittee shall not discharge particulate matter into the atmosphere in excess of 0.20 gr/cf of exhaust gas [Regulation 1, Rule 420(e) adopted 1/19/89 and SIP Rule 420(d)].

b. All permit units which are a part of the Furnish Drying Process shall not discharge particulate matter in total quantities exceeding the following: emission rate (lbs/hr) = 2.58 [process weight rate]<sup>0.67</sup> where the process weight rate is the weight in 1000 lbs/hr of raw material introduced into the initial predrier.

c. The permittee shall not discharge particulate matter into the atmosphere in excess of 18.3 lbs/hr total from permit units ND-255(Triple Pass Drier), ND-256(Single Pass Drier), and ND-258(Fuel Drier) [Authority to Construct, NAC-280a, 5/26/98].

2. **Visible emissions** - see General Provisions, section L.

3. **Fugitive Dust** - see General Provisions, section L

### IV. COMPLIANCE MONITORING

The following methods shall be used for determining compliance with the above emissions limitations:

A. **Particulate Matter** - CARB Method 5 or other EPA approved method.

The permittee shall be required to have particulate matter from the drier exhaust tested annually [Regulation 1, Rule 240(d)].

B. **Visible Emissions** - Federal Method 9. The permittee shall perform a "Visible Emission Evaluation" (VEE) at least once per quarter while the system is in operation. A CARB certified contractor or the District shall be hired to perform such an evaluation [Regulation 1, Rule 240(d)].

C. **Fugitive Dust** - The permittee shall conduct inspections of the basic equipment on a weekly basis (7 day schedule). No more than five weekly inspections per calendar year may be missed.

1. Any notable blow pipe or collector leak of exhaust gas prior to the discharge point to the atmosphere shall be repaired within 24 hours upon detection.

2. Wood particles deposited on the roof of any building or elsewhere shall be removed within 24 hours upon detection.

[Regulation 1, Rule 240(d)].

V. **REPORTING AND RECORDKEEPING** - see General Provisions, section F.

A. A log shall be maintained which specifies the initials of the person inspecting the system, date and time inspected, location of any leak found, and date and time of repair.

B. No monitoring other than indicated shall be required for this permit unit.

C. The permittee shall maintain data on particleboard production from each press including board weights and press cycle times, and the moisture of the raw material feed to the furnish driers.

**VI. OPERATING CONDITIONS** - See General Provisions, section C.

- A. The cleaning of the steam coils shall be conducted in a manner which does not result in excessive fugitive dust to the atmosphere as determined by the District.
- B. The wood fired boiler supplying heat to the drier shall be fired with wood wastes defined as sawmill, particleboard or lumber wastes, or vegetation which are not treated with any chemicals. Painted wood is allowable provided that the paint is tested for lead. Lumber painted with lead based paints shall not be burned in the boiler.
- C. The exhaust of the boiler shall be directed to the drier except during emergency events, or breakdowns conditions which requires atmospheric venting.

(2) Permit Number - ND-256(Drier)

Name - Single Pass Drier

I. **BASIC EQUIPMENT** - A Guaranty Performance single pass rotary drier used to pre-dry green furnish material for particleboard production. Heat for the drier is provided by two sources: (1) Partial exhaust gases from a 25,000 lbs/hr steam low pressure wood fired boiler. Exhaust gases may be recirculated back to the drier inlet, and a slip stream of exhaust gas removed utilizing dampers in the exhaust gas recirculation duct. A material separation box located on the exhaust/material outlet of the drier is vented to a large high efficiency cyclone collector containing a rotary air lock for fines removal prior to recirculation of exhaust gases and atmospheric venting.

II. **CONTROL EQUIPMENT** - None.

III. **EMISSIONS LIMITATIONS**

A. **Particulate Matter**

1. **Particulate loading** -

a. The permittee shall not discharge particulate matter into the atmosphere in excess of 0.20 gr/cf of exhaust gas [Regulation 1, Rule 420(e) adopted 1/19/89 and SIP Rule 420(d)].

b. All permit units which are a part of the Furnish Drying Process shall not discharge particulate matter in total quantities exceeding the following: emission rate (lbs/hr) =  $2.58[\text{process weight rate}]^{0.67}$  where the process weight rate is the weight in 1000 lbs/hr of raw material introduced into the initial predrier.

c. The permittee shall not discharge particulate matter into the atmosphere in excess of 18.3 lbs/hr total from permit units ND-255(Triple Pass Drier), ND-256(Single Pass Drier), and ND-258(Fuel Drier) [Authority to Construct, NAC-280a, 5/26/98].

2. **Visible emissions** - see General Provisions, section L.

3. **Fugitive Dust** - see General Provisions, section L

IV. **COMPLIANCE MONITORING**

The following methods shall be used for determining compliance with the above emissions limitations:

A. **Particulate Matter** - CARB Method 5 or other EPA approved method.

The permittee shall be required to have particulate matter from the drier exhaust tested annually [Regulation 1, Rule 240(d)].

B. **Visible Emissions** - Federal Method 9. The permittee shall perform a "Visible Emission Evaluation" (VEE) at least once per quarter while the system is in operation. A CARB certified contractor or the District shall be hired to perform such an evaluation [Regulation 1, Rule 240(d)].

C. **Fugitive Dust** - The permittee shall conduct inspections of the basic equipment on a weekly basis (7 day schedule). No more than five weekly inspections per calendar year may be missed.

1. Any notable blow pipe or collector leak of exhaust gas prior to the discharge point to the atmosphere shall be repaired within 24 hours upon detection.

2. Wood particles deposited on the roof of any building or elsewhere shall be removed within 24 hours upon detection.

[Regulation 1, Rule 240(d)].

V. **REPORTING AND RECORDKEEPING** - see General Provisions, section F.

A. A log shall be maintained which specifies the initials of the person inspecting the system, date and time inspected, location of any leak found, and date and time of repair.

B. No monitoring other than indicated shall be required for this permit unit.

C. The permittee shall maintain data on particleboard production from each press including board weights and press cycle times, and the moisture of the raw material feed to the furnish driers.

VI. OPERATING CONDITIONS - See General Provisions, section C.

- A. The wood fired boilers supplying heat to the drier shall be fired with wood wastes defined as sawmill, particleboard or lumber wastes, or vegetation which are not treated with any chemicals. Painted wood is allowable provided that the paint is tested for lead. Lumber painted with lead based paints shall not be burned in the boiler.
- B. The exhaust of the boiler shall be directed to the drier except during emergency events, or breakdowns conditions which requires atmospheric venting.

(3) Permit Number - ND-257(Drier)

Name - Final Drier

I. **BASIC EQUIPMENT** - A Buttner single pass drier used to finish dry material which comes from the single pass predrier. Heat for the drier is provided by steam heated coils. Gases are recirculated back to the drier inlet, and a low volume of exhaust is vented to a cyclone collector for fines removal prior to atmospheric venting.

II. **CONTROL EQUIPMENT** - Secondary cyclone collector.

III. **EMISSIONS LIMITATIONS**

A. **Particulate Matter**

1. **Particulate loading** -

a. The permittee shall not discharge particulate matter into the atmosphere in excess of 0.20 gr/cf of exhaust gas [Regulation 1, Rule 420(e) adopted 1/19/89 and SIP Rule 420(d)].

b. All permit units which are a part of the Furnish Drying Process shall not discharge particulate matter in total quantities exceeding the following: emission rate (lbs/hr) =  $2.58[\text{process weight rate}]^{0.67}$  where the process weight rate is the weight in 1000 lbs/hr of raw material introduced into the initial predrier.

2. **Visible emissions** - see General Provisions, section L

3. **Fugitive Dust** - see General Provisions, section L

IV. **COMPLIANCE MONITORING**

The following methods shall be used for determining compliance with the above emissions limitations:

A. **Particulate Matter** - CARB Method 5 or other EPA approved method.

The permittee shall be required to have particulate matter from the drier exhaust tested annually [Regulation 1, Rule 240(d)].

B. **Visible Emissions** - Federal Method 9. The permittee shall perform a "Visible Emission Evaluation" (VEE) at least once per quarter while the system is in operation. A CARB certified contractor or the District shall be hired to perform such an evaluation [Regulation 1, Rule 240(d)].

C. **Fugitive Dust** - The permittee shall conduct inspections of the basic equipment on a weekly basis (7 day schedule). No more than five weekly inspections per calendar year may be missed.

1. Any notable blow pipe or collector leak of exhaust gas prior to the discharge point to the atmosphere shall be repaired within 24 hours upon detection.

2. Wood particles deposited on the roof of any building or elsewhere shall be removed within 24 hours upon detection.

[Regulation 1, Rule 240(d)].

V. **REPORTING AND RECORDKEEPING** - see General Provisions, section F.

A. A log shall be maintained which specifies the initials of the person inspecting the system, date and time inspected, location of any leak found, and date and time of repair.

B. No monitoring other than indicated shall be required for this permit unit.

C. The permittee shall maintain data on particleboard production from each press including board weights and press cycle times, and the moisture of the raw material feed to the furnish driers.

VI. **OPERATING CONDITIONS** - See General Provisions, section C.

A. The cleaning of the steam coils shall be conducted in a manner which does not result in excessive fugitive dust to the atmosphere as determined by the District.

## C. Fuel Drying Process

(1) Permit Number - ND-258(Drier)

Name - Fuel Drier

I. **BASIC EQUIPMENT** - Thompson 5 foot diameter by 20 foot long rotary drier used to dry wood fuel for the boilers. Heat for the drier is provided by two sources: (1) Partial exhaust gases from a 20,000 lbs/hr steam high pressure wood fired boiler, and (2) Partial exhaust gases from a 25,000 lb/hr low pressure wood fired boiler.

II. **CONTROL EQUIPMENT** - Exhaust gases are passed through dual 4 foot diameter cyclones prior to the ID fan. Rotary air locks are located on the cyclones outlets.

### III EMISSIONS LIMITATIONS

#### A. Particulate Matter

##### 1. Particulate loading -

a. The permittee shall not discharge particulate matter into the atmosphere in excess of 0.20 gr/cf of exhaust gas [Regulation 1, Rule 420(e) adopted 1/19/89 and SIP Rule 420(d)].

b. All permit units which are a part of the Fuel Drying Process shall not discharge particulate matter in total quantities exceeding the following:

emission rate (lbs/hr) =  $2.58[\text{process weight rate}]^{0.67}$  where the process weight rate is the weight in 1000 lbs/hr of raw material introduced into the fuel drier.

b. The permittee shall not discharge particulate matter into the atmosphere in excess of 18.3 lbs/hr total from permit units ND-255(Triple Pass Drier), ND-256(Single Pass Drier), and ND-258(Fuel Drier) [Authority to Construct, NAC-280a, 5/26/98].

2. **Visible emissions** - see General Provisions, section L.

3. **Fugitive Dust** - see General Provisions, section L

### IV. COMPLIANCE MONITORING

The following methods shall be used for determining compliance with the above emissions limitations:

A. **Particulate Matter** - CARB Method 5 or other EPA approved method.

The permittee shall be required to have particulate matter from the drier exhaust tested annually [Regulation 1, Rule 240(d)].

B. **Visible Emissions** - Federal Method 9. The permittee shall perform a "Visible Emission Evaluation" (VEE) at least once per quarter while the system is in operation. A CARB certified contractor or the District shall be hired to perform such an evaluation [Regulation 1, Rule 240(d)].

C. **Fugitive Dust** - The permittee shall conduct inspections of the basic equipment on a weekly basis (7 day schedule). No more than five weekly inspections per calendar year may be missed.

1. Any notable blow pipe or collector leak of exhaust gas prior to the discharge point to the atmosphere shall be repaired within 24 hours upon detection.

2. Wood particles deposited on the roof of any building or elsewhere shall be removed within 24 hours upon detection.

[Regulation 1, Rule 240(d)].

### V. REPORTING AND RECORDKEEPING - see General Provisions, section F.

A. A log shall be maintained which specifies the initials of the person inspecting the system, date and time inspected, location of any leak found, and date and time of repair.

B. A log shall be maintained which tracks the hours per day and number of days the fuel drier is used.

VI. OPERATING CONDITIONS - See General Provisions, section C.

- A. The wood fired boilers supplying heat to the drier shall be fired with wood wastes defined as sawmill, particleboard or lumber wastes, or vegetation which are not treated with any chemicals. Painted wood is allowable provided that the paint is tested for lead. Lumber painted with lead based paints shall not be burned in the boiler.
- B. The exhausts of the boilers shall be directed to the drier except during emergency events, or breakdowns conditions which requires atmospheric venting.

## D. Forming Process

(1) Permit Number - NC-046(Collector)

Name - Mat trim, #19

I. **BASIC EQUIPMENT** - This system is used to collect dried material during the forming of the mats prior to pressing. A 7.5 HP blower is used to pneumatically convey wood particles to a 60 inch diameter cyclone collector. The exhaust air from the collector is discharged directly to the atmosphere while the wood particles gravity feed to storage or are conveyed to the next process.

II. **CONTROL EQUIPMENT** - None.

### III. EMISSIONS LIMITATIONS

#### A. Particulate Matter

##### 1. Particulate loading -

a. The permittee shall not discharge particulate matter into the atmosphere in excess of 0.20 gr/cf of exhaust gas.

b. All permit units which are a part of the Forming Process shall not discharge particulate matter in total quantities exceeding the following:

emission rate(lbs/hr) = 2.58[process weight rate]<sup>0.67</sup> where the process weight rate is the weight in 1000 lbs/hr of material introduced into the presses.

[Regulation 1, Rule 420(e) adopted 1/19/89 and SIP Rule 420(d)].

2. **Visible emissions** - see General Provisions, section L.

3. **Fugitive Dust** - see General Provisions, section L

### IV. COMPLIANCE MONITORING

A. The following methods shall be used for determining compliance with the above emissions limitations:

1. **Particulate Matter** - The permittee shall perform at least once per permit term a source test by Oregon DEQ Method 8. A contractor shall be hired to perform such a test. An engineering evaluation will be allowed utilizing the District's emission factors for collectors which provides grain loading vs. opacity(Figure I) in support of a test exclusion. Such exclusion will be granted should the evaluation indicate emissions are less than one-half the allowable particulate matter limit of Section III.A.1.a and less than Section III.A.1.b[Regulation 1, Rule 240].

2. **Visible Emissions** - Federal Method 9. The permittee shall perform a "Visible Emission Evaluation"(VEE) at least once per quarter while the system is in operation. A CARB certified contractor or the District shall be hired to perform such an evaluation[Regulation 1, Rule 240(h)].

3. **Fugitive Dust** - The permittee shall conduct inspections of the basic equipment on a weekly basis(7 day schedule). No more than five weekly inspections per calendar year may be missed.

a. Any notable blow pipe or collector leak of exhaust gas prior to the discharge point to the atmosphere shall be repaired within 24 hours upon detection.

b. Wood particles deposited on the roof of any building or elsewhere shall be removed within 24 hours upon detection.

[Regulation 1, Rule 240(d)].

### V. REPORTING AND RECORDKEEPING - see General Provisions, section F.

A. A log shall be maintained which specifies the initials of the person inspecting the system, date and time inspected, location of any leak found, and date and time of repair.

B. No monitoring other than indicated shall be required for this permit unit.

C. The permittee shall maintain data on particleboard production from each press including board weights and press cycle times, and the moisture of the raw material feed to the furnish driers.

### VI. OPERATING CONDITIONS - see General Provisions, section C.

A. The permittee shall not operate the system should the collector become plugged which causes wood particles to be blown to the atmosphere. Once the system is found to be plugged, the permittee shall stop all pertinent process operations and remove the plug prior to further operation. Such system failures shall be reported to the District in accordance with Rule 540, Breakdown Procedures.

(2) Permit Number - NC-006(Collector)

Name - Mat trim, #11

I. **BASIC EQUIPMENT** - This system is used to collect dried material during the forming of the mats prior to pressing. A 15 HP blower is used to pneumatically convey wood particles to a 64 inch diameter cyclone collector. The exhaust air from the collector is discharged directly to the atmosphere while the wood particles gravity feed to storage or are conveyed to the next process.

II. **CONTROL EQUIPMENT** - None.

III. **EMISSIONS LIMITATIONS**

A. **Particulate Matter**

1. **Particulate loading** -

a. The permittee shall not discharge particulate matter into the atmosphere in excess of 0.20 gr/cf of exhaust gas.

b. All permit units which are a part of the Forming Process shall not discharge particulate matter in total quantities exceeding the following:

emission rate(lbs/hr) = 2.58[process weight rate]<sup>0.67</sup> where the process weight rate is the weight in 1000 lbs/hr of material introduced into the presses.

[Regulation 1, Rule 420(e) adopted 1/19/89 and SIP Rule 420(d)].

2. **Visible emissions** - see General Provisions, section L.

3. **Fugitive Dust** - see General Provisions, section L

IV. **COMPLIANCE MONITORING**

A. The following methods shall be used for determining compliance with the above emissions limitations:

1. **Particulate Matter** - The permittee shall perform at least once per permit term a source test by Oregon DEQ Method 8. A contractor shall be hired to perform such a test. An engineering evaluation will be allowed utilizing the District's emission factors for collectors which provides grain loading vs. opacity(Figure I) in support of a test exclusion. Such exclusion will be granted should the evaluation indicate emissions are less than one-half the allowable particulate matter limit of Section III.A.1.a and less than Section III.A.1.b[Regulation 1, Rule 240].

2. **Visible Emissions** - Federal Method 9. The permittee shall perform a "Visible Emission Evaluation"(VEE) at least once per quarter while the system is in operation. A CARB certified contractor or the District shall be hired to perform such an evaluation[Regulation 1, Rule 240(h)].

3. **Fugitive Dust** - The permittee shall conduct inspections of the basic equipment on a weekly basis(7 day schedule). No more than five weekly inspections per calendar year may be missed.

a. Any notable blow pipe or collector leak of exhaust gas prior to the discharge point to the atmosphere shall be repaired within 24 hours upon detection.

b. Wood particles deposited on the roof of any building or elsewhere shall be removed within 24 hours upon detection.

[Regulation 1, Rule 240(d)].

V. **REPORTING AND RECORDKEEPING** - see General Provisions, section F.

A. A log shall be maintained which specifies the initials of the person inspecting the system, date and time inspected, location of any leak found, and date and time of repair.

B. No monitoring other than indicated shall be required for this permit unit.

C. The permittee shall maintain data on particleboard production from each press including board weights and press cycle times, and the moisture of the raw material feed to the furnish driers.

VI. **OPERATING CONDITIONS** - see General Provisions, section C.

A. The permittee shall not operate the system should the collector become plugged which causes wood particles to be blown to the atmosphere. Once the system is found to be plugged, the permittee shall stop all pertinent process operations and remove the plug prior to further operation. Such system failures shall be reported to the District in accordance with Rule 540, Breakdown Procedures.

## D. Finishing Process

(1) Permit Number - NC-026(Collector)

Name - Edge trim, #15

I. **BASIC EQUIPMENT** - This system is used to collect dried material during the edging of pressed boards. A 100 HP blower is used to pneumatically convey wood particles to a 113 inch diameter cyclone collector. The exhaust air from the collector is discharged directly to the atmosphere while the wood particles gravity feed to storage or are conveyed to the next process.

II. **CONTROL EQUIPMENT** - None.

III. **EMISSIONS LIMITATIONS**

A. **Particulate Matter**

1. **Particulate loading** -

a. The permittee shall not discharge particulate matter into the atmosphere in excess of 0.20 gr/cf of exhaust gas.

b. All permit units which are a part of the Finishing Process shall not discharge particulate matter in total quantities exceeding the following:

emission rate(lbs/hr) = 2.58[process weight rate]<sup>0.67</sup> where the process weight rate is the weight in 1000 lbs/hr of board production.

[Regulation 1, Rule 420(e) adopted 1/19/89 and SIP Rule 420(d)].

2. **Visible emissions** - see General Provisions, section L.

3. **Fugitive Dust** - see General Provisions, section L

IV. **COMPLIANCE MONITORING**

A. The following methods shall be used for determining compliance with the above emissions limitations:

1. **Particulate Matter** - The permittee shall perform at least once per permit term a source test by Oregon DEQ Method 8. A contractor shall be hired to perform such a test. An engineering evaluation will be allowed utilizing the District's emission factors for collectors which provides grain loading vs. opacity(Figure I) in support of a test exclusion. Such exclusion will be granted should the evaluation indicate emissions are less than one-half the allowable particulate matter limit of Section III.A.1.a and less than Section III.A.1.b[Regulation 1, Rule 240].

2. **Visible Emissions** - Federal Method 9. The permittee shall perform a "Visible Emission Evaluation"(VEE) at least once per quarter while the system is in operation. A CARB certified contractor or the District shall be hired to perform such an evaluation[Regulation 1, Rule 240(h)].

3. **Fugitive Dust** - The permittee shall conduct inspections of the basic equipment on a weekly basis(7 day schedule). No more than five weekly inspections per calendar year may be missed.

a. Any notable blow pipe or collector leak of exhaust gas prior to the discharge point to the atmosphere shall be repaired within 24 hours upon detection.

b. Wood particles deposited on the roof of any building or elsewhere shall be removed within 24 hours upon detection.

[Regulation 1, Rule 240(d)].

V. **REPORTING AND RECORDKEEPING** - see General Provisions, section F.

A. A log shall be maintained which specifies the initials of the person inspecting the system, date and time inspected, location of any leak found, and date and time of repair.

B. No monitoring other than indicated shall be required for this permit unit.

C. The permittee shall maintain data on particleboard production from each press including board weights and press cycle times, and the moisture of the raw material feed to the furnish driers.

VI. **OPERATING CONDITIONS** - see General Provisions, section C.

A. The permittee shall not operate the system should the collector become plugged which causes wood particles to be blown to the atmosphere. Once the system is found to be plugged, the permittee shall stop all pertinent process operations and remove the plug prior to further operation. Such system failures shall be reported to the District in accordance with Rule 540, Breakdown Procedures.

I. **BASIC EQUIPMENT** - Particleboard sander with wood fines exhausted via a 125 HP blower to a 120 inch diameter cyclone collector.

II. **CONTROL EQUIPMENT** - Carborundum baghouse of 3174 sq.ft. collection area.

III. **EMISSIONS LIMITATIONS**

A. **Particulate Matter**

1. **Particulate loading** -

a. The permittee shall not discharge particulate matter into the atmosphere in excess of 0.20 gr/cf of exhaust gas.

b. All permit units which are a part of the Finishing Process shall not discharge particulate matter in total quantities exceeding the following:

emission rate(lbs/hr) = 2.58[process weight rate]<sup>0.67</sup> where the process weight rate is the weight in 1000 lbs/hr of board production.

[Regulation 1, Rule 420(e) adopted 1/19/89 and SIP Rule 420(d)].

2. **Visible emissions** - see General Provisions, section L.

3. **Fugitive Dust** - see General Provisions, section L

IV. **COMPLIANCE MONITORING**

A. The following methods shall be used for determining compliance with the above emissions limitations:

1. **Particulate Matter** - The permittee shall perform at least once per permit term a source test by Oregon DEQ Method 8. A contractor shall be hired to perform such a test. An engineering evaluation will be allowed utilizing the District's emission factors for collectors which provides grain loading vs. opacity(Figure I) in support of a test exclusion. Such exclusion will be granted should the evaluation indicate emissions are less than one-half the allowable particulate matter limit of Section III.A.1.a and less than Section III.A.1.b[Regulation 1, Rule 240].

2. **Visible Emissions** - Federal Method 9. The permittee shall perform a "Visible Emission Evaluation"(VEE) at least once per quarter while the system is in operation. A CARB certified contractor or the District shall be hired to perform such an evaluation[Regulation 1, Rule 240(h)].

3. **Fugitive Dust** - The permittee shall conduct inspections of the basic equipment on a weekly basis(7 day schedule). No more than five weekly inspections per calendar year may be missed.

a. Any notable blow pipe or collector leak of exhaust gas prior to the discharge point to the atmosphere shall be repaired within 24 hours upon detection.

b. Wood particles deposited on the roof of any building or elsewhere shall be removed within 24 hours upon detection.

[Regulation 1, Rule 240(d)].

V. **REPORTING AND RECORDKEEPING** - see General Provisions, section F.

A. A log shall be maintained which specifies the initials of the person inspecting the system, date and time inspected, location of any leak found, and date and time of repair.

B. No monitoring other than indicated shall be required for this permit unit.

C. The permittee shall maintain data on particleboard production from each press including board weights and press cycle times, and the moisture of the raw material feed to the furnish driers.

VI. **OPERATING CONDITIONS** - see General Provisions, section C.

A. The permittee shall not operate the system should the collector become plugged which causes wood particles to be blown to the atmosphere. Once the system is found to be plugged, the permittee shall stop all pertinent process operations and remove the plug prior to further operation. Such system failures shall be reported to the District in accordance with Rule 540, Breakdown Procedures.

## D. Exempt Equipment

Equipment and operations not specifically identified in this permit are not subject to specific federally-enforceable operating conditions or emission limitations. Such equipment and operations are subject to applicable General Provisions of this permit.

1. Forming Process Tanks
2. Diesel Tank
3. Particleboard Press and associated equipment
4. Truck Dumps
5. Raw Material Containment Building, Storage or Storage bins

## GENERAL PROVISIONS

These general provisions apply to all facilities or sources owned or operated by the permittee as detailed in this permit.

- A. Fee Payment** - The Permittee shall pay an annual permit fee and other fees as required in accordance with Regulation 1, Rule 300 of the District. Failure to pay these fees will result in forfeiture of this Permit to Operate. Operation without a permit subjects the source to potential enforcement action by the District and the US EPA pursuant to section 502(a) of the Clean Air Act as amended in 1990[40 CFR 70.6(a)(7); Regulation 5, Rule 670].
- B. Inspection and Entry** - Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the District, CARB, EPA or an authorized representative to perform the following:
1. Enter upon the permittee's premises where a regulated facility or emissions-related activity is located or conducted, or where records must be kept under the conditions of this permit.
  2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
  3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the conditions of this permit.  
[40 CFR 70.6(c)(2); Regulation 5, Rule 610(e)]
- C. Facilities Operation**
1. Operation under this permit must be conducted in compliance with all data and specifications included in the application which attest to the operator's ability to comply with District Rules and Regulations[Regulation 1, Rule 240(d)].
  2. All nonexempt equipment of this permit shall at all times be maintained in good working order and be operated as efficiently as possible to assure compliance with all applicable emission limits[Regulation 1, Rule 240(d)].
  3. Operational Limit - All permit units may be operated at a maximum of 365 days per year at 24 hours per day, unless specifically limited[Regulation 1, Rule 240(d)].
- D. Compliance**
1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action(including monetary civil penalties); for permit termination, revocation and reissuance, or modification; or for denial of an application for reissuance of the permit[40 CFR 70.6(a)(6); Regulation 5, Rule 610(g)].
  2. The need to halt or reduce activity is not a defense. It shall not be a defense for a permittee in an enforcement action that it would be necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit[40 CFR 70.6(a)(6); Regulation 5, Rule 610(g)].
  3. A pending permit action or notification of anticipated noncompliance does not stay any permit condition[Regulation 5, Rule 610(g)(5)].
  4. The permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and

reissuing, or terminating this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by this permit[40 CFR 70.6(a)(6)].

5. The permittee shall provide to the District on an annual basis a completed "Compliance Certification" form which certifies the compliance status of the facility. The compliance certification form must be signed by a responsible company official and contain a statement that the information contained in the report is true, accurate, and complete. A semi-annual compliance certification report shall be submitted to document the compliance schedule of any source out of compliance[40 CFR 70.6(c); Regulation 5, Rules 460 and 610(g)].

6. Emergency events which occur at the permittee's plant which affect compliance with the terms of this permit must be reported to the District in accordance with Regulation 1, Rule 540. Emergency events are normally outside influences over which the permittee has no control[Regulation 5, Rule 460].

**E. Severability** - If any term or condition of this permit shall for any reason be adjudged by a court of competent jurisdiction to be invalid, such judgment shall not affect or invalidate the remainder of this permit[40 CFR 70.6(a)(5); Regulation 5, Rule 610(h)].

#### **F. Recordkeeping and Reporting**

1. The permittee shall retain records of all required monitoring data and support information including the date, place, time and results of any sampling or analysis, the operating conditions at the time of sampling for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and copies of all reports required by this permit[40 CFR 70.6(a)(3)(ii)(B); Regulation 5, Rule 455].

2. The permittee shall report to the District any deviations from these permit requirements, including those attributable to breakdown conditions, the probable cause of the deviations, and any corrective actions or preventive measures taken. Procedures of Regulation 1, Rule 540 shall be followed in the reporting of such deviations. A breakdown log shall be maintained for recordkeeping purposes[40 CFR 70.6(a)(3)(iii)(B); Regulation 5, Rule 460; Regulation 1, Rule 540].

3. The permittee shall submit by January 31<sup>st</sup> of each year, a combined report to comply with the General Provisions sections D.5[Regulation 1, Rule 240(d)].

4. A semi-annual monitoring report shall be submitted to the District which identifies any deviation from these permit requirements including a summary of those deviations attributable to breakdowns, emergency events, emissions exceedances, and reporting or recordkeeping deviations required by this permit. These reports shall be due no later than July 15<sup>th</sup> and January 31<sup>st</sup> of each calendar year. The report shall be signed by the responsible official[Regulation 5, Rule 460(a,d)].

**G. Transfer of Ownership** -In the event of any changes in control or ownership of these facilities, this permit together with its terms and conditions shall be binding on all subsequent owners and operators. The permittee shall notify the succeeding owner and operator of the existence of this permit and its conditions by letter, a copy of which shall be forwarded to the District. Such permit transfer shall occur by application through the District[Regulation 1, Rule 240(j)].

#### **H. Reopening for Cause**

1. This permit may be modified, revoked, reopened, reissued, or terminated for the following reasons:

a. Additional requirements under the federal Clean Air Act become applicable to the facility for which three or more years remain on the original term of the permit. Such a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is to expire.

- b. The District or EPA determines that the permit contains a material mistake made in establishing the emissions standards or limitations, or other requirements of the permit.
- c. The District or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [40 CFR 70.7(f); Regulation 5, Rule 570]

2. The reopening of this permit for a change to be implemented for a specific permit unit will be allowed without the need to reopen the entire permit and all permit units. Should a general condition be changed, all the associated permit units affected would be reopened [Regulation 1, Rule 240(d)].

3. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition [40 CFR 70.6(a)(6)].

I. **Property Rights** - This permit does not convey any property rights of any sort, or any exclusive privilege [40 CFR 70.6(a)(6)].

J. **Permit Renewal and Expiration** - This permit is effective on the date of issuance and will expire in five years and must be renewed every five years thereafter. Permit expiration terminates the permittee's right to operate unless a timely and complete renewal application is submitted. For renewal of a permit, the designated representative shall submit a complete District application no earlier than 18 months and no later than 6 months before the expiration date of the current permit [40 CFR 70.5(a); Regulation 5, Rule 405(b)].

K. **Permit Modification** - The permittee shall submit an application for a minor or significant permit modification in accordance with District Regulation 5 [40 CFR 70.5(a); Regulation 5, Rule 405].

L. **Prohibitions** - These limitations apply to all emissions sources at the permittee's facility unless more specific and limiting requirements are listed for a individual permitted emissions unit in this permit.

1. **Public Nuisance** - The permittee shall not discharge such quantities of air contaminants or other material which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health or safety of any such persons or the public or which cause or have a natural tendency to cause injury or damage to business or property [H&S 41700].

2. **Visible Emissions** - The permittee shall not discharge into the atmosphere from any source whatsoever any air contaminant for a period or periods aggregating more than three (3) minutes in any one hour which is as dark or darker in shade as that designated as No. 2 on the Ringlemann Chart, as published by the United States Bureau of Mines; or of such opacity as to obscure an observer's view to a degree equal to or greater than Ringlemann 2 or forty (40) percent opacity [Regulation 1, Rule 410(a)].

3. **Fugitive Dust Emissions** - The handling, transporting, or open storage of material in such a manner which allow unnecessary amounts of particulate matter to become airborne, shall not be permitted. Reasonable precautions shall be taken to prevent particulate matter from becoming airborne [Regulation 1, Rule 430].

4. **Sulfur Oxide Emissions** - The permittee shall not discharge into the atmosphere from any single source of emissions whatsoever sulfur oxides, calculated as sulfur dioxide (SO<sub>2</sub>) in excess of 1,000 ppm [Regulation 1, Rule 440].

5. **Circumvention** - The permittee shall not construct, erect, modify, operate, or use any equipment which conceals an air contaminant emission, which would otherwise constitute a violation of the limitations of this permit, unless the operation or use of said equipment results in a significant reduction in the total emission of air contaminants [Regulation 1, Rule 400(b)].

6. **Regulation 2, Open Burning Procedures** - The permittee shall not ignite or cause to be ignited or suffer, allow or maintain any open outdoor fire for the disposal of rubber, petroleum or plastic wastes, demolition debris, tires, tar paper, wood waste, asphalt shingles, linoleum, cloth,

household garbage or other combustible refuse; or for metal salvage or burning of motor vehicle bodies except as provided in Rule 2-102, Exemptions[Regulation 2].

7. **Title VI, Stratospheric Ozone Protection** - The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, and 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

8. **National Emission Standard for Asbestos** - The permittee shall comply with the standards of 40 CFR Part 61 Subpart M which regulates demolition and renovation activities at the power plant as pertaining to asbestos materials.

This permit does not authorize the emission of air contaminants in excess of those allowed by the Health and Safety Code of the State of California or the Rules and Regulations of the North Coast Unified Air Quality Management District as stated in this permit. Any regulation or rule not cited in this permit which may be applicable to a particular emission unit will not be enforceable. This permit cannot be considered as permission to violate existing laws, ordinances, regulation or statutes of other governmental agencies. The violation of any of these terms and conditions shall be grounds for revocation of this permit, and shall be a violation of District Rules and Regulations.

NORTH COAST UNIFIED  
AIR QUALITY  
MANAGEMENT DISTRICT

2300 MYRTLE AVENUE  
EUREKA, CALIFORNIA 95501

PHONE (707) 443-3093  
FAX (707) 443-3099

DATE: \_\_\_\_\_

BY: \_\_\_\_\_

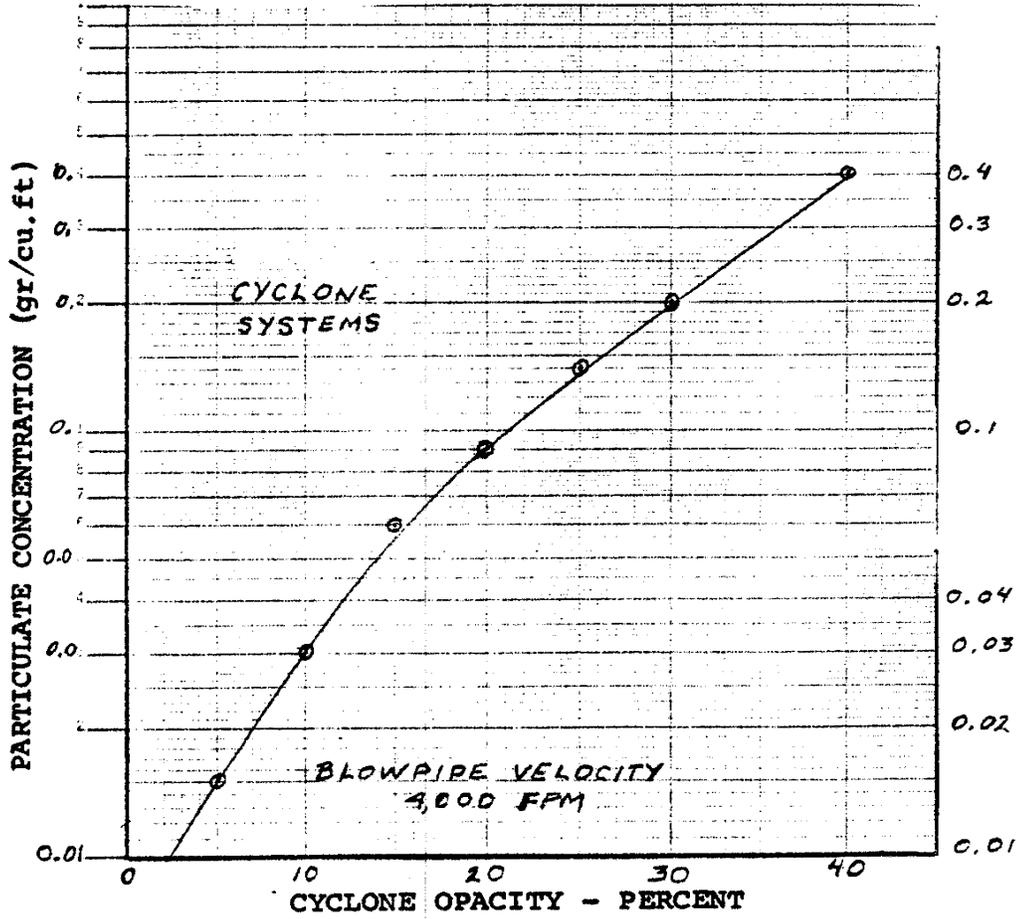
WAYNE MORGAN,  
AIR POLLUTION CONTROL OFFICER



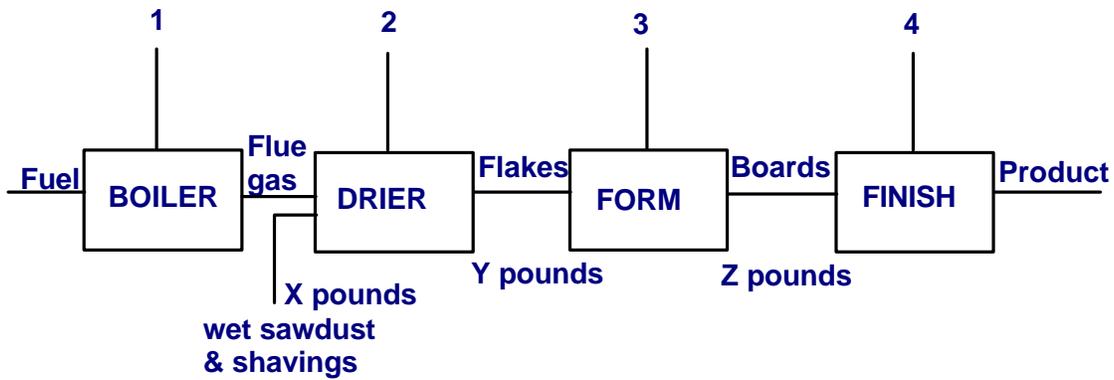
Permit Seal

**FIGURE I**

**CYCLONE TOP OPACITY  
vs OUTLET PARTICULATE LOADING  
(grains/cubic foot)**



## FIGURE II - FLUE GAS DRYING



### ALLOWABLE PARTICULATE MATTER EMISSIONS:

- 1 Rule 420(a) or (b)
- 2 Rule 420(e) @ x pounds per hour
- 3 Rule 420(e) @ y pounds per hour
- 4 Rule 420(e) @ z pounds per hour