



Yakima Regional Clean Air Agency

INSTRUCTIONS FOR PERMIT APPLICATION

Use this sheet as a checklist to determine when your application is substantially complete.

- ☞ Each PERMIT APPLICATION for the construction, installation or establishment of a new air contaminant source, or modification of existing air pollution source or control equipment or permit, needs to be accompanied by the following information to be considered complete:

Included N/A

- ☒ ☐ Process flow sheets and equipment layout diagrams.
- ☒ ☐ Control equipment manufacturer, model number, size, serial numbers (for each piece of control equipment).
- ☒ ☐ Quantify average and maximum hourly throughput values, average yearly totals, and maximum concentrations for each pollutant.
- ☒ ☐ Applicant's calculation of the kinds and amounts of emissions for each emission point, materials handling operation or fugitive category (both controlled and uncontrolled).
- ☒ ☐ Plot plan including identification of proposed emission points to the atmosphere, distance to property boundaries, height of buildings and stack height above ground level.
- ☒ ☐ Identification of raw materials and/or product specifications (physical and chemical properties) and typical ranges of operating conditions as related to each emission point (toxic air contaminants require a separate summary); Material Safety Data Sheets (MSDS) should be included in the PERMIT APPLICATION for all compounds used.
- ☒ ☐ Identification of the methods/equipment proposed for prevention/control of emissions to the atmosphere.
- ☐ ☐ Information sufficient to demonstrate the ability of the emission controls proposed as being consistent with those provided in the applicable regulations (BACT/NSPS/RACT/NESHAPS/LAER analysis), see attached worksheet for typical layout of BACT analysis information.
- ☐ ☒ The kinds and amounts of emission offset credits proposed for assignment when operations are within a non-attainment boundary (see WAC 173-400-120 and 131).
- ☐ ☒ Estimates of the proposed project ambient impact under average and least favorable conditions where pertinent to PSD (WAC 173-400-720) or Toxic Air Pollutants (WAC 173-460) requirements.
- ☐ ☒ Additional information, evidence, or documentation as required by the Board of Directors, or the Control Officer, to show that the proposed project will meet federal, state and local air pollution control regulations.
- ☐ ☒ For applications that include equipment that has previously been approved, authorized or registered, a lapse is considered to have occurred if the registration fees are delinquent for more than one calendar year or the source has not operated within five years prior to the receipt of any required PERMIT APPLICATION (WAC 173-400-110).
- ☐ ☒ Applications that include previously approved or authorized equipment require that additional information regarding previous owners or approvals be provided so that YRCAA records can be updated. Equipment registered and/or approved for a given company cannot be authorized without a legal name change, purchase of company or equipment, or a legal contract or subcontract to do business with or for the approved source. Responsibility for operation of authorized equipment rests with the registered source.
- ☒ ☐ All applications need to be accompanied with a completed SEPA checklist or SEPA determination.

- ☞ The application transmittal shall conform to YRCAA review requirements wherever possible as detailed in the General Regulations for Air Pollution Sources (WAC 173-400).

- ☞ Each drawing, document, or other form of transmittal considered by the applicant to be proprietary and confidential must be suitably identified as confidential in red ink, and signed and dated by the applicant or its agent. Be aware that YRCAA follows the requirements in 40 CFR 2 for determination of confidentiality. YRCAA may not process company sensitive information as confidential.

- ☞ Order of Approval (to construct, modify, or install) are issued for specific equipment or processes described in the application. Changes to the processes or control equipment are not allowed without new source review (Permit Application and Permit) if these changes result in an emission of a different type or an increase in emissions (WAC 173-400-110). Process equipment changes that result in decreased emissions require notification to YRCAA.

- ☞ The SIC code is identified as the four digit major group classification in the 1987 Standard Industrial Code Classification Manual listing of SIC codes can be obtained for free from the internet.

- ☞ Mail or deliver in person the completed application package to:
- Yakima Regional Clean Air Agency
329 North First Street
Yakima, WA 98901-2303

- ☞ Application fees must accompany application for the application to be considered complete. An invoice will be sent out for the Engineering review after final decision on the application. Make checks payable to "Yakima Regional Clean Air Agency" or "YRCAA".

- ☞ The PERMIT APPLICATION package submitted must be complete. All applications are screened for completeness before processing. Applicants submitting incomplete application packages will be notified of their incomplete status and may result in a delay in processing the application.



Filing Fee: \$400.00

RECEIVED

MAY 21 2015

YRCAA

329 North First Street, Yakima WA 98901
Phone: (509) 834-2050 Fax: (509) 834-2060
Website: <http://www.yakimacleanair.org>

New Source Review Application (NSR)

Stationary/Permanent Source

INSTALLATION OR ESTABLISHMENT OF NEW AIR CONTAMINANT SOURCES

NSR Application is Required for Construction, Installation or Establishment of an Air Pollution Source
Or

Replacement or Substantial Alteration of Emission Control Technology on an Air Pollution Source or Equipment

I. General Information:

BUSINESS NAME Alexandria Moulding, Inc. IC,

MAILING ADDRESS P.O. Box 169, Moxee, Washington 98936

PHONE NUMBER (509) 248-2120 FAX No. (509) 249-9924

NATURE OF BUSINESS Wood, medium density fiberboard (MDF), and composite molding manufacturing.

TYPE OF PROCESS, EQUIPMENT, OR APPARATUS Excel Model PP2212-72 shrink tunnel; Excel Model INT20-2 side-seal w/ chop saw; Voorwood S-60 slitler rewinder; Delle Vedove Duspohl hot melt glue tank; Dado machine.

LIST OF AIR CONTAMINANT(S) WHICH WILL BE PRODUCED AND/OR CONTROLLED PM, PM10, PM2.5, VOC, acetaldehyde, acetic acid, acetone, acrolein, acrylic acid, ethane, ethylene, formaldehyde, formic acid, methyl ethyl ketone, propionaldehyde, propylene, vinyl acetate

ESTIMATED COSTS: OF BASIC SOURCE EQUIPMENT \$ 72,000

OF CONTAMINANT CONTROL APPARATUS \$ 2 @ \$415 ea = \$830

ESTIMATED STARTING DATE: June 1, 2015

ESTIMATED COMPLETION DATE: June 15, 2015

ADDRESS WHERE EQUIPMENT WILL BE LOCATED: 101 Grant Way, Moxee, Washington 98936

Describe Input to Output Process (Attach drawings, schematics, prints, or block diagrams) _____

See Project Description - Appendix A

Process: Production Output per Year (tons, pounds, etc) 720,000 LF/yr mouldings; 6,000 post cuts/yr + 860 kg glue/yr

Maximum Output per Hour (tons, pounds, etc) 3,750 LF/hr moulding; 20.8 post cuts/hr + 4 kg/hr glue

Percentage of Production (%) x 8760 hr/yr = 32,850,000

Dec - Feb 25 Mar - May 25

Jun - Aug 25 Sep - Nov 25

Operating Schedule: Hrs/Day 24

Days/Wk 5

Wks/Yr 52

= 6240 hrs.

Compliance with SEPA (State Environmental Policy Act) - Check One of the Options Below:

- ☐ A DNS or EIS has been Issued by Another Agency for this Project and a Copy is Attached.
☒ If no DNS or EIS Exists for this Project, a Completed Checklist for this Project is Attached.

YRCAA SEPA checklist is available by phone, or by our website at <http://www.yakimacleanair.org>

- ☐ The city/county has established an exemption for this project.
☐ I certify that the SEPA has been satisfied or this project is exempt:

Date _____ by _____ Government Agency _____

II. Emissions Estimations and Calculations:

1. Criteria Pollutants (gr/dscf, tons/yr, lbs/hr., ppm, etc.)

Particulate (PM₁₀, PM_{2.5}) PM10 = 9 lb/yr, PM2.5 = 0

Volatile Organic Compounds 33 lb/yr

Nitrogen Oxides 0

Sulfur Oxides 0

Carbon Monoxide 0

Lead 0

- | 2. Toxic Pollutants (Name) | Quantity (in gr/dscf, tons/yr, lbs/hr. ppm, etc.) |
|----------------------------|---|
| <u>Acetaldehyde</u> | <u>0.12 lb/yr</u> |
| <u>Acrolein</u> | <u>0.08 lb/yr</u> |
| <u>Acrylic Acid</u> | <u>0.08 lb/yr</u> |
| <u>Formaldehyde</u> | <u>0.37 lb/yr</u> |
| <u>Methyl Ethyl Ketone</u> | <u>0.08 lb/yr</u> |

- | 3. Fugitive Pollutants (Source) | Quantity (in gr/dscf, tons/yr, lbs/hr. ppm, etc.) |
|---------------------------------|---|
| <u>Propylene</u> | <u>0.04 lb/yr</u> |
| <u>None</u> | |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

4. Air Pollution Modeling

Results Not required; all potential emissions are below de minimus thresholds

Computer Printout Attached? Yes No

III. Emission Data:

1. Stack Height (Feet) _____ Inside Diameter (feet) _____
Gas Exit Temp (degrees F) _____ Gas Exit Velocity (ft/min) _____
Flow Rate (cfm) _____
Shared Stack? If a shared stack, identify process (es) or point(s) which share the stack.
Distance from Stack to Property Line _____

2. Discharge Point or points (if no stack or other than stack)

Height (feet) 6.5 Inside Diameter (feet) No defined stack

Gas Exit Temp (degrees F) 68

Gas Exit Velocity (ft/min) N/A

Flow Rate (cfm) 1,550

Shared discharge point? If a shared discharge point, identify process (es) or point(s) which share the discharge point. _____

Distance from discharge point to Property Line _____

3. Fuel Type _____ % Sulfur _____

% Ash _____ Unit of Measure (gal./cu.ft./etc.) _____

BTU per Unit of Measure _____ Consumption Units per Year _____

Maximum Consumption Units per Hour _____

4. Building Dimensions

Height (feet) ~24

Length (feet) ~560

Width (feet) ~90

IV. Air Pollution Control Equipment:

Baghouse Type Grizzly Model G1029Z2P Efficiency _____

Bag Height (feet) 2.75 ft Bag Diameter (feet) 1.6 ft

Filter Area (feet squared) 16.1 sqft Blower Flow Rate (cfm) 1,550

Filter Media 2.5 micron fabric bag Dimensions (feet) 2.8 ft W x 1.7 ft D x 6.5 ft H

Discharge Area Dimensions (feet) 1.6 ft diam x 2.75 ft length

Cleaning Mechanism (shake) (air psi) Regularly check/empty collection bags

Other Data 2 HP, 240 V, Single-Phase, 60 Hz, 9A, 11 in. max static pressure

Scrubber Type _____ Efficiency _____

Gas Differential Pressure (psi) _____ Liquor Differential Pressure (psi) _____

Liquor Flow (gpm) _____ Discharge Area Dimensions (feet²) _____

Gas Flow (cfm) _____ Other Data _____

Cyclone Type _____ Efficiency _____

Gas Flow (cfm) _____ Discharge Area Dimensions (feet²) _____

Other Data _____

Precipitator Type _____ Efficiency _____

Gas Flow (cfm) _____ Gas Velocity (ft/sec) _____

Residence Time _____ Gas Differential Pressure (psi) _____

Precipitation Rate (ft/sec) _____ Discharge Area Dimensions (feet²) _____

Other Data _____

Ad/Absorp Type _____ Efficiency _____

Gas Flow _____ Gas Velocity (ft/sec) _____

Gas Temp (degree F) _____ Bed Volume (ft³) _____
Bed Dimensions (feet) _____ Capacity (hours) _____
Contaminant (lb/day) _____ Regeneration time (hours) _____
Other Type _____ Efficiency _____
Gas Flow (cfm) _____ Discharge Area Dimensions (feet) _____
Other Data _____

V. Additional Information:

2. Fugitive Dust Control Plan (Attach if Necessary) N/A
3. Attach Operation and Maintenance Manual of Pollution Control Equipment.
Yes No, if not, why? _____
3. Attach Vendor Information or Manufacturer's Instructions on Pollution Control Equipment.
Yes No, if not, why? _____
4. Attach Related Information on Chemicals or Materials that will be emitted
(MSDS Sheets, Company Information, etc.) Yes No, if not why? _____

APPLICANT: I hereby certify that the information contained in this application, including supplemental forms and data, when required, is, to the best of my knowledge, complete and correct. I also agree to all fees for processing this permit and grant permission for YRCAA staff to enter the premises for inspection.

Signature Michael L Hall Date 5-5-15
Title Maintenance Supervisor Date _____

Name and Title of Individual Filling out Form:

Name (print) Beth Fifield Hodgson, Principal Engineer, Spring Environmental, Inc.
Signature Beth Fifield Hodgson

Name and Title of Contact Person, if Different from Above:

Name Brad Gleich
Title Pricing Manager

Filing fee of \$400.00 must be paid before review will begin. A surcharge fee for time required to prepare and process the application will be invoiced after the permit to operate is issued.

OFFICIAL USE ONLY

YRCAA NSR No: NSRP-13-AM-15 Date Fee Paid: 5/21/15
Received by: Michelle Filing Fee: **\$400.00**