



Notice of Construction Application

A notice of construction permit is required before installing a new source of air pollution or modifying an existing source of air pollution. This application applies to facilities in Ecology’s jurisdiction. Submit this application for review of your project. For general information about completing the application, refer to Ecology Forms ECY 070-410a-g, “Instructions for Ecology’s Notice of Construction Application.”

Ecology offers up to two hours of free pre-application assistance. We encourage you to schedule a pre-application meeting with the contact person specified for the location of your proposal, below. If you use up your two hours of free pre-application assistance, we will continue to assist you after you submit Part 1 of the application and the application fee. You may schedule a meeting with us at any point in the process.

Upon completion of the application, please enclose a check for the initial fee and mail to:

**Department of Ecology
Cashiering Unit
P.O. Box 47611
Olympia, WA 98504-7611**

For Fiscal Office Use Only:
001-NSR-216-0299-000404

Check the box for the location of your proposal. For assistance, call the contact listed below:	
Ecology Permitting Office	Contact
<input type="checkbox"/> CRO	Chelan, Douglas, Kittitas, Klickitat, or Okanogan County Ecology Central Regional Office – Air Quality Program Lynnette Haller (509) 457-7126 lynnette.haller@ecy.wa.gov
<input checked="" type="checkbox"/> ERO	Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Stevens, Walla Walla or Whitman County Ecology Eastern Regional Office – Air Quality Program Karin Baldwin (509) 329-3452 karin.baldwin@ecy.wa.gov
<input type="checkbox"/> NWRO	San Juan County Ecology Northwest Regional Office – Air Quality Program David Adler (425) 649-7267 david.adler@ecy.wa.gov
<input type="checkbox"/> IND	For actions taken at Kraft and Sulfite Paper Mills and Aluminum Smelters Ecology Industrial Section – Waste 2 Resources Program Permit manager: _____ James DeMay (360) 407-6868 james.demay@ecy.wa.gov
<input type="checkbox"/> NWP	For actions taken on the US Department of Energy Hanford Reservation Ecology Nuclear Waste Program Lilyann Murphy (509) 372-7951 lilyann.murphy@ecy.wa.gov

Check the box below for the fee that applies to your application.



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New project or equipment:

<input checked="" type="checkbox"/>	\$1,500: Basic project initial fee covers up to 16 hours of review.
<input type="checkbox"/>	\$10,000: Complex project initial fee covers up to 106 hours of review.

Change to an existing permit or equipment:

<input type="checkbox"/>	\$200: Administrative or simple change initial fee covers up to 3 hours of review Ecology may determine your change is complex during completeness review of your application. If your project is complex, you must pay the additional \$675 before we will continue working on your application.
<input type="checkbox"/>	\$875: Complex change initial fee covers up to 10 hours of review
<input type="checkbox"/>	\$350 flat fee: Replace or alter control technology equipment under WAC 173-400-114 Ecology will contact you if we determine your change belongs in another fee category. You must pay the fee associated with that category before we will continue working on your application.

Read each statement, then check the box next to it to acknowledge that you agree.	
<input checked="" type="checkbox"/>	The initial fee you submitted may not cover the cost of processing your application. Ecology will track the number of hours spent on your project. If the number of hours Ecology spends exceeds the hours included in your initial fee, Ecology will bill you \$95 per hour for the extra time.
<input checked="" type="checkbox"/>	You must include all information requested by this application. Ecology may not process your application if it does not include all the information requested.
<input checked="" type="checkbox"/>	Submittal of this application allows Ecology staff to visit and inspect your facility.



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Part 1: General Information

I. Project, Facility, and Company Information

1. Project Name Plant 1 Furnace Baghouse Upgrade	
2. Facility Name D&L Foundry	
3. Facility Street Address 12970 Wheeler Rd., Moses Lake, WA	
4. Facility Legal Description D&L Foundry	
5. Company Legal Name (if different from Facility Name)	
6. Company Mailing Address (street, city, state, zip) 12970 Wheeler Rd., Moses Lake, WA, 98837	

II. Contact Information and Certification

1. Facility Contact Name (who will be onsite) Adam Kroupa	
2. Facility Contact Mailing Address (if different than Company Mailing Address)	
3. Facility Contact Phone Number 509-765-7952	4. Facility Contact E-mail adamkroupa@dlfoundry.com
5. Billing Contact Name (who should receive billing information)	
6. Billing Contact Mailing Address (if different than Company Mailing Address)	
7. Billing Contact Phone Number 509-765-7952	8. Billing Contact E-mail ap@dlfoundry.com
9. Consultant Name (optional – if 3 rd party hired to complete application elements)	
10. Consultant Organization/Company	
11. Consultant Mailing Address (street, city, state, zip)	
12. Consultant Phone Number	13. Consultant E-mail
14. Responsible Official Name and Title (who is responsible for project policy or decision-making) Jason McGowan	
16. Responsible Official Phone 509-765-7952	17. Responsible Official E-mail jasonmcgowan@dlfoundry.com
18. Responsible Official Certification and Signature I certify that the information on this application is accurate and complete.	
Signature _____ Date _____	

Part 2: Technical Information



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The Technical Information may be sent with this application form to the Cashiering Unit, or may be sent directly to the Ecology regional office with jurisdiction along with a copy of this application form.

For all sections, check the box next to each item as you complete it.

III. Project Description

Please attach the following to your application.

- X Written narrative describing your proposed project.
- X Projected construction start and completion dates.
- X Operating schedule and production rates.
- X List of all major process equipment with manufacturer and maximum rated capacity.
- X Process flow diagram with all emission points identified.
- X Plan view site map.

- X Manufacturer specification sheets for major process equipment components.
- X Manufacturer specification sheets for pollution control equipment.
- X Fuel specifications, including type, consumption (per hour & per year) and percent sulfur.

IV. State Environmental Policy Act (SEPA) Compliance

Check the appropriate box below.

SEPA review is complete:

Include a copy of the final SEPA checklist and SEPA determination (e.g., DNS, MDNS, EIS) with your application.

SEPA review has not been conducted:

If review will be conducted by another agency, list the agency. You must provide a copy of the final SEPA checklist and SEPA determination before Ecology will issue your permit.

Agency Reviewing SEPA:

If the review will be conducted by Ecology, fill out a SEPA checklist and submit it with your application. You can find a SEPA checklist online at

<https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-document-templates>



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V. Emissions Estimations of Criteria Pollutants

Does your project generate criteria air pollutant emissions? X Yes No

If yes, please provide the following information regarding your criteria emissions in your application.

X The names of the criteria air pollutants emitted (i.e., NO_x, SO₂, CO, PM_{2.5}, PM₁₀, TSP, VOC, and Pb) Pb, PM2.5, PM10

X Potential emissions of criteria air pollutants in tons per hour, tons per day, and tons per year (include calculations)

If there will be any fugitive criteria pollutant emissions, clearly identify the pollutant and quantity

VI. Emissions Estimations of Toxic Air Pollutants

Does your project generate toxic air pollutant emissions? X Yes No

If yes, please provide the following information regarding your toxic air pollutant emissions in your application.

X The names of the toxic air pollutants emitted (specified in [WAC 173-460-150](#)¹)

X Potential emissions of toxic air pollutants in pounds per hour, pounds per day, and pounds per year (include calculations)

If there will be any fugitive toxic air pollutant emissions, clearly identify the pollutant and quantity

VII. Emission Standard Compliance

X Provide a list of all applicable new source performance standards, national emission standards for hazardous air pollutants, national emission standards for hazardous air pollutants for source categories, and emission standards adopted under Chapter 70.94 RCW.

Does your project comply with all applicable standards identified? X Yes No

VIII. Best Available Control Technology

X Provide a complete evaluation of Best Available Control Technology (BACT) for your proposal.

¹ <http://apps.leg.wa.gov/WAC/default.aspx?cite=173-460-150>



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IX. Ambient Air Impacts Analyses

Please provide the following:

- X Ambient air impacts analyses for Criteria Air Pollutants (including fugitive emissions)
- X Ambient air impacts analyses for Toxic Air Pollutants (including fugitive emissions)

- X Discharge point data for each point included in air impacts analyses (include only if modeling is required)
 - X Exhaust height
 - X Exhaust inside dimensions (ex. diameter or length and width)
 - X Exhaust gas velocity or volumetric flow rate
 - X Exhaust gas exit temperature
 - X The volumetric flow rate
 - X Description of the discharges (i.e., vertically or horizontally) and whether there are any obstructions (ex., raincap)
 - X Identification of the emission unit(s) discharging from the point
 - X The distance from the stack to the nearest property line
 - X Emission unit building height, width, and length
 - X Height of tallest building on-site or in the vicinity and the nearest distance of that building to the exhaust
 - X Whether the facility is in an urban or rural location

Does your project cause or contribute to a violation of any ambient air quality standard or acceptable source impact level? Yes No

Project Description: Preheater A and Furnace A Baghouse Upgrade/Replacement

D&L foundry proposes the following:

- To install a baghouse with superior performance specifications for the A side furnace
- To re-route A side preheat duct work to current A side furnace baghouse in order to replace irreparably damaged A side preheat baghouse.

Installation of the A side furnace baghouse and reroute of the a-side preheat ducting is planned for September/October 2019

Operating Schedule

- D&L Foundry A side Foundry currently operates 16 hours per day, five days a week at a melt rate of 5 tons/hour

Major process equipment is as follows:

- Existing Preheater A, Vennetta/Serial# 78200-312, 1000 lbs/minute Capacity
- Existing Furnace System A, Inductotherm/Dual track 3250 (2), 5 ton/hour Capacity
- See attached manufacturers information.

Control equipment is as follows:

- Dust collector: D&L Foundry model Penticton 6-14-224-24k serial# 0001 to control Furnace system A. Cloth area = 4924 sq. ft., flow rate = 24,000 cfm.
- Dust collector: Fabric Filter Air Systems Model # 196-10 TRLOD to control Preheater A. Cloth area = 3087 sq. ft., flow rate = 12,000 cfm.
- See attached manufacturers information

Criteria Pollutant Estimation:

- See attached annual emissions report

Toxic Pollutant Estimation:

- See attached annual emissions report

Emission Standard Compliance:

- Emissions units will be controlled in the same method as already permitted by DOE with greater fugitive capture due to higher flow rate through baghouses. See current vs proposed equipment spreadsheet attached.

BACT:

- BACT has previously been analyzed and approved by DOE for these emissions units. D&L is replacing equipment, not changing methods.

Ambient Air Impacts:

- See attached annual air emissions inventory. No new emissions sources are being added.
- See attached discharge point data spreadsheet.

TESTING OF BAGHOUSE FILTRATION PRODUCTS

SOUTHERN FELT SUMMARY OF RESULTS AT 6.6/1

DATE: 11/01/04

RUN ID.	134-R2
FABRIC DESIGNATION	NX-13.5/5-US-1
MANUFACTURER	Southern Felt
DUST FEED	Pural NF

VERIFICATION TEST RESULTS

Mean Outlet Particle Conc. PM 2.5 (gr/dscf)	0.0000582
Mean Outlet Particle Conc. Total mass (gr/dscf)	0.0000582
Initial Residual Pressure Drop (in. w.g.)	1.07
Change in Residual Pressure Drop (in. w.g.)	0.24
Average Residual Pressure Drop (in. w.g.)	1.22
Mass Gain of Filter Sample (g)	1.81
Average Filtration Cycle Time (s)	112
Number of Pulses	193

RESIDUAL PRESSURE DROP

At Start of: Conditioning Period (in. w.g.)	0.06
Recovery Period (in. w.g.)	0.96
Performance Test Period (in. w.g.)	1.07

REMOVAL EFFICIENCY (%)

Dust Conc (gr/dscf)	7.95
PM 2.5	99.99905 *
Total Mass	99.99927 **

* (Dust Concentration * 0.7735) - PM 2

Dust Concentr

** Dust Concentration - Tota

Dust Concentration