



Longview Fibre Paper and Packaging, Inc. Notice of Construction Order 8429 Public Meeting & Public Hearing

Department of Ecology / Industrial Section

Linda Whitcher, hearing officer
Marc Heffner, Ecology Industrial Section engineer
Garin Schriever, Ecology Industrial Section manager
May 10, 2011

Agenda

- 6:30 p.m. Introduction
 - Linda Witcher/hearing officer
- 6:35 Public Meeting
(Presentation/Q&A session)
 - Marc Heffner/Ecology Industrial Section engineer
 - Garin Schriever/Ecology Industrial Section manager

- Followed by: Public Hearing
(Formal testimony)
- Linda Witcher/hearing officer

Tonight's Purpose

- Provide overview and receive comment on draft Notice of Construction (NOC) Order No. 8429
- Answer your questions.
- Accept formal comments.
 - Please sign up

The comment period ends at 5:00 p.m. on May 16, 2011.

Big Picture

- Longview Fibre is planning a mill infrastructure improvement project
- Ecology wrote a Notice of Construction (NOC) Order to limit air pollution emissions due to the project
- You may comment on the draft NOC Order

New Source Review

- New Source Review is:
 - Process to consider air emissions from new sources
 - Applies to changes being made
- A “new source” is:
 - Construction or modification that increases air emissions

WAC 173-400-030(53), WAC 173-400-110 & 111

New Source Review Process

1. Mill wants to do a project that will change air emissions
2. Mill prepares a NOC Application and submits it to Ecology
3. Ecology evaluates application and regulates air emissions

Notice of Construction Application

A Notice of Construction application includes:

- Project description
 - Air emissions analysis
- Analysis of environmental rules and regulations
- Plan to comply with applicable rules and regulations

NOC Application (cont'd)

- Longview submitted an application in November 2010.
- Ecology must*:
 - Make initial completeness determination within 30 days
 - Begin public comment process within 60 days after application is complete.
 - Make final decision promptly after the public comment period has ended.

*WAC 173-400-111(1)&(4)

Project Description

- Changes to existing units
- Add new units
- Permanently shut down some units

Project Description (cont'd)

- Upgrade power boiler #20
 - Efficiency improvements to produce more steam from wood fuel
 - Installing a system to better control nitrogen oxides emissions
 - Higher steam temperature and pressure

Project Description (cont'd)

Modify recovery furnace #19

- More efficient particulate emissions control
- Conversion to a more energy efficient and lower odor concentrator system.
- Higher steam temperature and pressure
- Install new black liquor solids tank

Project Description (cont'd)

- Modify recovery furnace #22 heat exchange system
 - Higher temperature and pressure steam
- Modify lime kiln #5 and lime slaker #6 to increase capacity

Project Description (cont'd)

Install new steam turbine capacity and cooling tower

- Generate up to 54.22 MW of electricity
- Remaining steam used to support mill operations (cogeneration or combined heat and power (CHP))

Project Description (cont'd)

- Permanently shut down
 - Power boiler #12
 - Power boiler #13
 - Recovery furnace #18
 - Smelt dissolving tank #18
- Improve efficiency
 - Expected decrease in wood fuel and fossil fuel use

Air Emissions Analysis

1. Calculate pre-project air emissions – “baseline”
2. Estimate post-project emissions
3. Compare the difference

Air Emissions Analysis (cont'd)

Pollutants considered:

- Carbon monoxide (CO)
- Nitrogen oxides (NO_x)
- Sulfur dioxide (SO₂)
- Particulate matter (PM, PM₁₀, PM_{2.5})
- Lead
- Total reduced sulfur (TRS)
- Ozone (Volatile Organic Compounds (VOCs) or nitrogen oxides)
- Fluoride
- Sulfuric acid mist
- Hydrogen sulfide (H₂S)
- Air toxics

Ecology Review

- Changes in air emissions will occur
- Notice of Construction Order is needed
 - Sets conditions for the project based on current rules and regulations
- State Environmental Policy Act (SEPA)
 - Cowlitz County Determination of Nonsignificance (DNS) issued 1/14/2011
- No toxic air pollutant limits required (WAC 173-460)

NOC Order No. 8429

- Introduction
 - Describes project and planned changes at mill
- Findings
 - Summarizes key information about the project
- Conditions
 - Sets limits and monitoring requirements

Existing Limits

	Recovery Furnace 19	Power Boiler 20	Lime Kiln 5
PM&PM ₁₀ -filterable	X	X	X
Opacity	X	X	X
Total Reduced Sulfur (TRS)	X		X
Sulfur Dioxide (SO ₂)	X	X	X
Carbon Monoxide (CO)	X	X	X
Nitrogen Oxides (NO _x)	X	X	X
Hazardous Air Pollutants (HAPs)	X	X	X
Volatile Organic Compounds (VOCs)	X	X	X
Operating Rate	X	X	X

NOC Order (cont'd)

Recovery Furnace 19

	Reduced limit	New limit
PM-total		X
PM ₁₀ -total		X
PM _{2.5} -total		X
PM&PM ₁₀ -filterable	X	
Opacity	X	
Total Reduced Sulfur (TRS)	X	

NOC Order (cont'd)

Power Boiler 20

	Reduced limit	New limit
PM-total		X
PM ₁₀ -total		X
PM _{2.5} -total		X
Ammonia (NH ₃)		X
PM&PM ₁₀ -filterable	X	
Nitrogen Oxides (NO _x)	X	

Specifies types of fuel that may be used.

NOC Order (cont'd)

Lime Kiln 5

- New continuous monitoring requirements
 - Sulfur Dioxide (SO_2)
 - Nitrogen Oxides (NO_x)
- Existing PSD permit must be modified to increase the allowable operating rate

NOC Order (cont'd)

- New cooling tower
 - Limits for PM and toxic air pollutant controls

NOC Order (cont'd)

Combined unit limits:

- PM-total, PM₁₀-total, PM_{2.5}-total
- Sulfur dioxide (SO₂)
- Carbon monoxide (CO)
- Nitrogen oxides (NO_x)
- Total reduced sulfur (TRS)

NOC Order (cont'd)

Requirement to permanently remove from service

- Recovery furnace 18
- Smelt Dissolving Tank 18
- Power boiler 12
- Power Boiler 13

Summary

- Changes in air pollutant emissions will occur
- The NOC Order limits air pollutant emissions
- Limits are based on current rules and regulations
- The order requires monitoring and reporting
- Improved efficiency with expected decrease in wood and fossil fuel use

Ecology's next steps

1. Public comment closes at 5 p.m., May 16, 2011
2. Review and consider all comments for possible changes to the order
3. Complete *Response to Comments*
4. Make final decision

Web page

Documents and information are posted on our webpage:

http://www.ecy.wa.gov/programs/swfa/industrial/pulp_longview.html

Questions?

- Garin Schrieve, Industrial Section manager
 - Marc Heffner, Industrial Section engineer
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**Send written comments by 5:00 PM on
May 16, 2011 to:**

Washington Dept. of Ecology
Marc Heffner/Industrial Section
PO Box 47600
Olympia, WA 98504-7600
Fax: 360-407-6102
IScommentsLF@ecy.wa.gov

Public Hearing

Linda Witcher, hearing officer

**Send written comments by 5:00 p.m. on
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