

FNSB Air Quality Alert Burn Restrictions for Solid Fuel Burning Appliances Stage 1 Waiver



(Revised 8-16-17)

Properties located in the Air Quality Control Zone (AQCZ) of the Fairbanks North Star Borough (FNSB) (see map on page 3 – or call the Air Quality office if you are unsure whether or not you are in the area) are subject to restrictions on the use of solid fuel burning appliances (SFBA) and waste oil burning appliances during air alerts as per FNSB Code 21.28.050. During a Stage 1 air alert, residents may not add fuel to the combustion chamber or firebox of any SFBA or waste oil burning appliance. Building owners or other persons with a property or managerial interest in the building who receive a Stage 1 waiver are exempt from Stage 1 air alert restrictions for that building. A resident with a Borough listed SFBA (e.g. EPA certified wood and pellet stoves with an emissions rating of 2.5 g/hr or less, EPA certified hydronic heaters with an emissions rating of 0.10 lbs/million btu or less, masonry heaters, cook stoves, and fireplaces) may apply for a Stage 1 waiver and, if the waiver is granted, continue to use their appliance(s). **This waiver does NOT allow continued use of the appliance(s) during a Stage 2 alert.**

Complete one form per building and return the form(s) and accompanying documents to **FNSB Air Quality Improvement Program 3175 Peger Road, Fairbanks, AK 99709**. For more information call (907) 459-1005 or visit AQFairbanks.com. **The Fairbanks North Star Borough is subject to the Alaska Public Records Act, AS 40.25 et seq. and this application document may be subject to public disclosure under state law.**

Name of applicant: _____

Property Address: _____

Mailing Address: _____

Phone Number: _____ E-mail address: _____

Please fill out the following information to the best of your ability. All information will be reviewed by the Air Quality staff prior to granting a waiver. If information cannot be verified, a waiver will not be granted.

Make/Model/Serial Number of SFBA	EPA Certified? (Circle one)	If yes, emission rating?
1)	Yes No N/A	
2)	Yes No N/A	
3)	Yes No N/A	
4)	Yes No N/A	

The following documentation must be completed and/or submitted for each application (check when complete):

- _____ Pictures of each appliance for which you are requesting the waiver -- Pictures should clearly show the front and side of the appliance(s) and, if possible, the EPA certified data plate on the back of the SFBA. The Air Quality office should be able to clearly identify an appliance from the pictures that are submitted. Please let the Air Quality staff know if you have previously participated in the Borough's Change Out Program, because the Borough may be able to use pictures from our records.
- _____ Picture(s) demonstrating your ability to properly store wood – Per Borough code, proper wood storage is defined as “specific and dedicated space to store clean wood in such a manner that it is not in contact with soil, the top is adequately protected from precipitation, and airflow is available to the wood.”
- _____ Burn Wise Quiz – Watch the Burn Wise videos (available on our website at AQFairbanks.com or on a DVD from the AQ Office) and complete the quiz.
- _____ Notice of Restrictions – Read through the form for a quick summary of the Borough's air quality regulations, and then sign acknowledging that you have read the information.
- _____ Sign up to receive alerts – Visit AQFairbanks.com to sign up to receive air quality alerts via text or email. Applications are also available at the AQ Office.

Certification: I understand that by signing below I am requesting a waiver from the Fairbanks North Star Borough (FNSB) to be able to use the above appliance(s) during a Stage 1 air alert. I also understand that this is a waiver only with respect to the restrictions imposed during a Stage 1 air alert, that the waiver only applies as long as the factual circumstances indicated continue to exist, and the waiver does not excuse compliance with any other air quality control measures imposed by Borough code or State law. I also understand that if approved, this completed form will serve as my waiver. If Borough code changes any of the above requirements, you may be required to reapply and the Borough Air Quality office will contact you.

Signature: _____ Date: _____

Please note: Once the application and all supporting documentation have been submitted, and you have signed up to receive alerts, please allow 1-2 weeks for the Borough's Stage 1 Waiver determination. Air Quality staff will process applications as quickly as possible, in the order they are received, and in many instances a waiver may be granted the same day an application is submitted.

For Office Use Only:

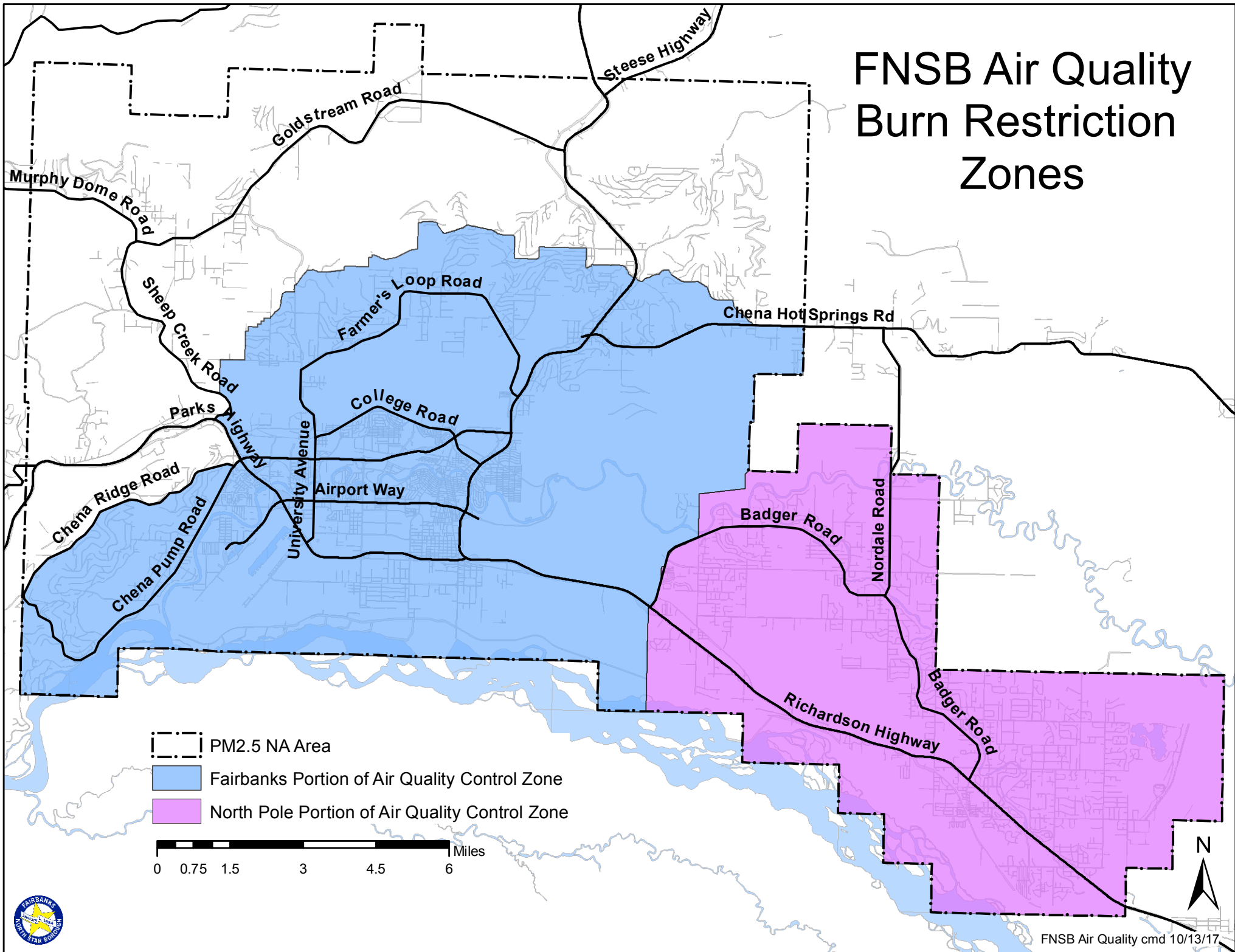
Received the following: Pictures of appliance(s) Picture(s) of proper wood storage Quiz
 Notice of Restrictions Signed up for alerts

Waiver Status (circle all that apply):
 Approved Appliance(s) 1 2 3 4
 Denied Appliance(s) 1 2 3 4

If any appliances denied, reason: _____

FNSB AQ Staff: _____
Signature Printed Name Date

FNSB Air Quality Burn Restriction Zones



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FNSB Air Quality Improvement Program

Burn Wise Quiz

(Revised 8-9-17)



The questions and answers in this quiz are based on the information from the "Burn Wise" video. We will gladly go over the quiz with you, and please feel free to ask any questions you may have about burning wood responsibly.

Please return this quiz to the FNSB Air Quality office, at 3175 Peger Road.

Name: _____

1. How much cleaner is an EPA certified wood stove compared to an older non certified stove?
 - 30% cleaner
 - 50% cleaner
 - 70% cleaner

2. How much less wood can you expect to use with an EPA certified woodstove compared to an older non certified stove?
 - Up to a 1/4 less wood
 - Up to a 1/3 less wood
 - Up to a 1/2 less wood

3. What is one way to determine the make/model of your wood stove?
 - Tag on the back
 - Owner's manual
 - A local dealer
 - All of the above

4. Green wood contains up to how much moisture? Firewood must have 20% or less moisture content to be legal to burn in the Fairbanks North Star Borough.
 - 25%
 - 35%
 - 50%
 - 100%

5. How often should a chimney be inspected and cleaned?
 - Cleaned at least once a year, inspected more regularly
 - Every 3 – 5 years, inspected once a year
 - Never, the creosote helps to insulate the chimney

6. How often should the catalytic converter on a catalytic type stove be inspected and cleaned?
 - Once a year
 - Every 3 – 5 years
 - Never, it would ruin the catalytic converter

(turn page over to complete quiz)

7. Can a catalytic type stove be affected by leaving the door open?

- Yes
- No

8. What is the most common reason for back drafting?

- Green wood
- Too short of a chimney
- Kitchen, bath, or dryer vent creating negative pressure

9. How can you tell if you are not operating your stove correctly?

- There is a lot of smoke coming out the stack
- You have difficulty lighting a fire
- Your stove isn't providing enough heat
- You can't see through the glass door
- All of the above

10. What is a good way to determine the proper air setting for your stove?

- The owner's manual
- Ask your neighbor
- It is the same as your old stove

11. What are the five rules for an efficient fire?

1. _____
2. _____
3. _____
4. _____
5. _____



FNSB Air Quality Improvement Program

NOTICE OF RESTRICTIONS FOR SOLID FUEL BURNING APPLIANCES

(Revised 8-17-17)

In December 2009, the EPA designated a portion of the Fairbanks North Star Borough as a Nonattainment area for fine particulate matter (PM_{2.5}). In order to reduce emissions and clean up our air the Borough has adopted Air Quality ordinances, which have created guidelines and restrictions on the installation and operation of solid fuel burning appliances (SFBAs). **Fines for violating these provisions range from \$500 - \$1,000. DISCLAIMER:** Below is a general summary that is not inclusive of all Air Quality regulations and only references Code 21.28.020, 21.28.030, and 21.28.050. A complete copy of Borough Air Quality regulations can found online at

<http://www.codepublishing.com/AK/FairbanksNorthStarBorough/#!/FNSBC21/FNSBC2128.html#21.28>

Borough Wide Regulations

- * **Prohibited Fuels** - Only clean wood that is **20% MOISTURE CONTENT OR LESS** is allowed to be burned in a wood burning appliance. Clean wood is defined as natural wood that has not been painted, varnished or coated with a similar material, has not been treated with preservatives, and does not contain resins or glues as in plywood or other composited wood products. There are many other prohibited fuels (e.g. garbage, glossy or colored paper, etc). Code reference 21.28.030(G).
- * **Fine Particulate (PM_{2.5}) Emissions crossing property lines** – No person shall cause or permit particulate emissions from a nonmobile source to impact the resident(s) of a neighboring property through the creation of an emissions plume that: crosses property lines, is visible, and is 25µg/m³ greater than the surrounding background. Code reference 21.28.030(D).
- * **Hydronic heater installation requirements** – There are setback requirements for the installation of hydronic heaters to limit how close the appliance is to property lines, as well as schools, clinics, hospitals, and senior housing units. Code reference 21.28.030(F).

Nonattainment Area Regulations

- * **Borough Listed SFBAs** - Only Borough listed SFBAs can be installed, which are as follows: EPA certified wood and pellet stoves with an emissions rating of 2.5 g/hr or less, EPA certified hydronic heaters with an emissions rating of 0.10 lbs/million btu or less, masonry heaters, cook stoves, and fireplaces. Code reference 21.28.020.

Air Quality Control Zone Regulations

- * **Air Alert Burn Restrictions** – Between Oct. 1st and March 31st, the Borough's Air Quality division may call a Stage 1 or Stage 2 alert depending on how bad the air quality is expected to get. During a Stage 1 alert, burning is only permitted by those that have received a Stage 1 Waiver or No Other Adequate Source of Heat (NOASH) Waiver. During a Stage 2 air alert, all burning of solid fuels is prohibited unless a NOASH Waiver has been issued. To get a Stage 1 or NOASH waiver, the appliance must be Borough listed, along with wood burning training and proper wood storage

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requirements. The waiver documents can be found online at AQFairbanks.com or in the Air Quality Office. Code reference 21.28.050 and 21.28.060.

Air Quality Control Zone Regulations Cont.

* **Visible Emissions Standards** - Visible emissions from a SFBA may not have an opacity greater than 20 percent for a period more than 10 minutes in any hour except during initial startup, when the opacity must be less than 50 percent for no longer than 40 minutes. Code reference 21.28.030(C).

* **Installation of SFBAs in New Construction** – Beginning January 1, 2018, the installation of a SFBA in new construction will require a permit. Only Borough listed SFBAs can be installed, and they must be properly installed by a Borough listed installer. Occupants of the new construction will be required to take training on proper wood burning techniques, as well as demonstrate the availability of proper wood storage. Code reference 21.28.030(E).

Please note: The installation of SFBAs may not be appropriate in some areas due to terrain, meteorological conditions, or other relevant conditions that render the operation of the appliance a nuisance. Even when an appliance is otherwise legally installed and operated in accordance with the manufacturer’s specifications, it is your responsibility to operate any SFBA in a manner that does not create a nuisance or health hazard.

Appliance Purchased (please check one): ___ is Borough listed
 ___ is not Borough listed*

By signing below I confirm that I have received and read the above notice.

Signature: _____ Date: _____

Printed Name: _____

Mailing Address: _____

Vendor Name (if applicable): _____

*Non Borough listed SFBAs may not be installed within the Borough’s PM_{2.5} nonattainment area. If a non-Borough listed appliance is sold, an Affidavit of Compliance must be completed and submitted to the Borough Air Quality office within 30 days of the sale that states the appliance will not be installed within the Borough’s PM_{2.5} nonattainment area. The form can be found online at AQFairbanks.com or in the Air Quality office.

**This completed form must be submitted to the
FNSB Air Quality Office at 3175 Peger Road, Fairbanks, AK 99709
within 30 days of the sale.**

For more information visit AQFairbanks.com or call the Borough Air Quality office at (907) 459-1234. Also be sure to follow us on FaceBook at FaceBook.com/AQFairbanks.

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