

## Pellet-Fired Hydronic Heaters Meeting Emission Standards for the Fairbanks North Star Borough PM2.5 Nonattainment Area

These standards only apply to **NEW** heating devices being **sold or installed** in the FNSB PM2.5 Nonattainment Area beginning **January 8, 2020**. Only **NEW** pellet-fired hydronic heaters that appear on this list and meet the emission standards may be sold or installed inside the nonattainment area beginning January 8, 2020.

If a pellet-fired hydronic heater <350,000 Btu/hr meets the emission standards in 18 AAC 50.077 but does not appear on this list, contact DEC staff for guidance. In addition, if it appears a device has been listed incorrectly, contact Steven Hoke by phone (907) 451-5172 or by email [steven.hoke@alaska.gov](mailto:steven.hoke@alaska.gov).

DEC develops these lists by downloading from EPA all the devices that have EPA certification and applying the standards found in 18 AAC 50.077.

DEC Standards (INSIDE FNSB PM2.5 NONATTAINMENT AREA ONLY) – 18 AAC 50.077		
Wood-Fired Heating Device Type	Particulate Matter Emission Standard	Effective Date
<b>ONLY</b> Pellet Hydronic Heaters <350,000 Btu/hr	EPA certified AND 0.10 lbs. per million Btu of heat output for each individual burn rate. (DEC listed)	01/08/2020

More [information and a map of the FNSB PM2.5 Nonattainment Area](#) is available online

### Summary of Changes:

Change Type	Manufacturer	Models	Reason for Change
Removed	Maine Energy Systems, LLC	Pellematic 56	Incorrect test method procedures used for certification

As of September 1, 2020, all devices not meeting ADEC regulatory requirements have been removed from the Approved Device List to meet 18 AAC 50.077(c)(3)(ii). This requirement states that no valid test run measurement, from the device's certification report, may exceed 6.0 grams per hour. Device reports that exceed this number, have not reported a value, have reported the value in incorrect units,



or where the certification report cannot be found, have been removed from the list. The highlighted devices are expected to be removed from the approved list on June 1, 2021 unless the manufacturer addresses the issues within the certification report.

Approved Device List			
Manufacturer Name	Model Name	Annual Avg Emission Level (lbs/million BTU)	Max Heat Output Rating (BTU/hr)
Fröling Heizkessel und Behälterbau Ges.m.b.H	PE1 Pellet 20	0.05	67744
Fröling Heizkessel und Behälterbau Ges.m.b.H	PE1 Pellet 35	0.05	121300
Hargassner GmbH	ECO-HK 70 Multifuel	0.07	239000
Maine Energy Systems, LLC	Pellematic 20	0.02	68300
Maine Energy Systems, LLC	Pellematic 32	0.02	109000

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