

## Pellet Stoves 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. Only **NEW** pellet stoves that appear on this list and meet the emission standards may be sold or installed inside the nonattainment area. For pellet stoves currently installed at a location, please refer to the following link to see if they need to be removed or if they may stay during a real estate transaction: <http://dec.alaska.gov/air/anpms/communities/fbks-pm2-5-real-estate/#lists>.

If a wood-fired pellet heating device <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 Cory McDonald by phone (907) 451-5172 or by email [cory.mcdonald@alaska.gov](mailto:cory.mcdonald@alaska.gov).

DEC develops these lists by reviewing devices that have received EPA certification and where DEC has received a request by their manufacturer to review the underlying certification test report. DEC applies the standards found in 18 AAC 50.077.

**Table 1. DEC Standards (INSIDE FNSB PM2.5 NONATTAINMENT AREA ONLY) – 18 AAC 50.077**

| Wood-Fired Heating Device Type                   | Particulate Matter Emission Standard  | Effective Date           |
|--|---|--------------------------|
| Woodstoves<br>& Pellet Stoves<br><350,000 Btu/hr | EPA Certification<br><u>AND</u><br>2.0 g/hr particulate matter annual average emission level<br><u>AND</u><br><u>Not exceed 6.0 grams per hour on any valid 1-hr filter pull from the device's certification test</u><br><u>AND</u><br><u>DEC acceptance of underlying certification test results</u> | 1/8/2020<br><br>9/1/2020 |

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



**Table 2. Summary of Changes:**

| Change Type       | Manufacturer                 | Models  | Reason for Change  |
|-------------------|------------------------------|---|--|
| Removal           | Hearth and Home Technologies | P35i-C  | Stove Out of Production  |
| Removal           | Hearth and Home Technologies | ECO CAB50-C and ECO PS50-C                                    | Stove Out of Production  |
| Removal           | Sherwood Industries, Ltd.    | Enviro – Mini, P3 and Regency Greenfire – GF40                | Stove Out of Production  |
| Removal           | Sherwood Industries, Ltd.    | Enviro – M55 FS, M55C-FPI and Regency Greenfire – GC60, GCI60 | Stove Out of Production  |
| Removal           | Thermorossi                  | SlimQuatro 9  | Stove Out of Production  |
| Removal           | Thermorossi                  | SlimQuatro 11   | Stove Out of Production  |
| Removal           | Travis Industries, Inc.      | Fox Fire  | Stove Out of Production  |
| Removal           | United States Stove Compay   | 5520  | Stove Out of Production  |
| Removal           | United States Stove Compay   | KP130, AP130, VG130, 5502M, 5500, 5500M, and 5500XL           | Stove Out of Production  |
| Removal           | United States Stove Compay   | King KP60, Ashley AP60, Vogelzang VG60                        | Stove Out of Production  |
| Milestone warning | Travis Industries, Inc.      | Deerfield   | Milestone date $\leq 6$ months from now and the existing issues have not been resolved |

As of February 1, 2021, all devices have been removed if DEC has not accepted or has insufficient data to make a determination based on review of the underlying certification test results as required under 18 AAC 50.077(c)(2). This is in addition to the removal of devices that do not meet the DEC standards summarized in the table above.

Highlighted devices (**in yellow**) are those devices that are due to be removed  $\leq 6$  months from now at the expiration of their milestone date (see transition list for more detail) if their report issues are not resolved by that time.

18 AAC 50.077(C)(3)(ii) states that alternative test methods (ATM), including broadly applicable test methods may be used in meeting the state standards if approved by both EPA and DEC. DEC continues to allow devices on the approved list that have been tested with alternative methods unless the device's certification test report review indicates report issues. At this time ATMs may continue to be used until such time as either EPA or DEC formally disapproves their use.



**Table 3. Approved Device List**

| <b>Manufacturer Name</b>     | <b>Model Name</b>   | <b>Annual Avg Emission Rate (grams/hr)</b> | <b>Heat Output (BTU/hr)</b> |
|------------------------------|---|--|-----------------------------|
| Enerco Group, Inc.           | PS130W  | 1.6  | 13535-34129                 |
| Enerco Group, Inc.           | PS60W   | 0.99                                       | 9265-26865                  |
| Hearth and Home Technologies | Harman Absolute 43-C  | 0.99                                       | 14141-44183                 |
| Hearth and Home Technologies | Harman P61-C  | 1.5  | 17085-46831                 |
| Hearth and Home Technologies | Harman P68-C  | 1.4  | 15756-52664                 |
| Hearth and Home Technologies | Pel-Pro PP60-B, Pleasant Hearth PH35PS-B, and Outfitter-I   | 0.74                                       | 6815-26020                  |
| Hearth and Home Technologies | PelPro PP130-B, PP 150, and Outfitter-II  | 0.53                                       | 9605-40637                  |
| Hearth and Home Technologies | PelPro PP70   | 0.5  | 9603-35278                  |
| Hearth and Home Technologies | QuSanta Fe-C, Santa Fe I-C, Castile-C, Castile I-C  | 1.1  | 5831-22440                  |
| Hearth and Home Technologies | Quadra Fire Mount Vernon E2-C, Quadra Fire Mount Vernon E2-C Insert, Trekker, Trekker Insert          | 0.7  | 12682-39428                 |
| Hearth and Home Technologies | Quadra-Fire Classic Bay 1200-C  | 1  | 11074-30851                 |
| Travis Industries, Inc       | AGP Insert  | 0.98                                       | 8320-33686                  |
| Travis Industries, Inc       | Deerfield   | 0.79                                       | 10652-37391                 |
| United States Stove Company  | 4840, KP500, and AP5000   | 1.4  | 7164-12161                  |
| United States Stove Company  | 6041, 6041I, and SP6000   | 1.3  | 7540-21811                  |
| United States Stove Company  | 5660E, AP5660, AP5660L, AP5660PE and DNMP566  | 1.9  | 11155-24361                 |
| United States Stove Company  | 5770, 5770i, VG5770, VG5770i, AP5770, AP5770i, DNMP577, DNMP577(i), 5790, VG5790, AP5790, and DNMP579 | 0.85                                       | 9218-18619                  |



| Manufacturer Name           | Model Name  | Annual Avg Emission Rate (grams/hr) | Heat Output (BTU/hr) |
|-----------------------------|---|-------------------------------------|----------------------|
| United States Stove Company | Breckwell SP2047, GW7400  | 0.41                                | 16030-33684          |
| United States Stove Company | SP1000  | 1.5                                 | 5813-31935           |
| United States Stove Company | SP22(i), SP23(i), SP24(i), SP2000(i), AP2000(i), SP2700, SP4000, SPC4000, APC4000 and 5040(i) | 0.49                                | 4814-32788           |
| Sherwood Industries, Ltd.   | Enviro Mini 2, Enviro P3-2 Regency Greenfire GF40-2   | 0.54                                | 6881-23892           |
| Independent Stove LLC       | GAP 2020  | 0.84                                | 8026-23002           |

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