

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 Steven Hoke by phone (907) 451-5172 or by email steven.hoke@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.

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 & Pellet Stoves <350,000 Btu/hr	EPA Certification <u>AND</u> 2.0 g/hr particulate matter annual average emission level	1/8/2020
	<u>AND</u> <u>Not exceed 6.0 grams per hour on any valid 1-hr filter pull from the device's certification test</u> <u>AND</u> <u>DEC acceptance of underlying certification test results</u>	9/1/2020

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
Proposed Removal	Several	Expired or expiring devices	Those devices that have expired or are expiring will be removed until a retest has been conducted and its certification test report approved.



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 at the expiration of their milestone date 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.

Approved Device List			
Manufacturer Name	Model Name	Annual Avg Emission Rate (grams/hr)	Heat Output (BTU/hr)
509 Fabrications, Inc.	509-1 Optimum	1.5	32183-19573
Enerco Group, Inc.	PS130W	1.6	13535-34129
Enerco Group, Inc.	PS60W	0.99	26865-9265
Hearth and Home Technologies	P35i-C	1.5	30614-10546
Hearth and Home Technologies	ECO CAB50-C and ECO PS50-C	1	36591-7488
Hearth and Home Technologies	Harman Absolute 43-C	0.99	44183-14141
Hearth and Home Technologies	Harman P61-C	1.5	46831-17085
Hearth and Home Technologies	Harman P68-C	1.4	52664-15756
Hearth and Home Technologies	Pel-Pro PP60-B and Pleasant Hearth PH35PS-B	0.74	26020-6815
Hearth and Home Technologies	PelPro PP130-B	0.53	40637-9605



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Manufacturer Name	Model Name	Annual Avg Emission Rate (grams/hr)	Heat Output (BTU/hr)
Hearth and Home Technologies	PelPro PP70	0.5	35278-9603
Hearth and Home Technologies	QuSanta Fe-C, Santa Fe I-C, Castile-C, Castile I-C	1.1	22440-5831
Hearth and Home Technologies	Quadra Fire Mount Vernon E2-C, Quadra Fire Mount Vernon E2-C Insert, Trekker, Trekker Insert	0.7	39428-12682
Hearth and Home Technologies	Quadra-Fire Classic Bay 1200-C	1	30851-11074
Sherwood Industries, Ltd.	Enviro – Mini, P3 and Regency Greenfire – GF40	0.48	19996-6447
Sherwood Industries, Ltd.	Enviro - M55 FS, M55C-FPI and Regency Greenfire – GC60, GCI60	1.8	23542-4383
Thermorossi	SlimQuatro 9	0.7	11356-32691
Thermorossi	Slimquadro 11	1.6	18586-36548
Travis Industries, Inc	AGP Insert	0.98	33686-8320
Travis Industries, Inc	Deerfield	0.79	37391-10652
Travis Industries, Inc	Fox Fire	0.89	38263-10443
United States Stove Company	4840, KP500, and AP5000	1.4	12161-7164
United States Stove Company	5520	1.5	37379-8506
United States Stove Company	6041, 6041I, and SP6000	1.3	21811-7540
United States Stove Company	5660E, AP5660, AP5660L, AP5660PE and DNMP566	1.9	24361-11155
United States Stove Company	5770, 5770i, VG5770, VG5770i, AP5770, AP5770i, DNMP577, DNMP577(i), 5790, VG5790, AP5790, and DNMP579	0.85	18619-9218
United States Stove Company	Breckwell SP2047, GW7400	0.41	33684-16030



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Manufacturer Name	Model Name	Annual Avg Emission Rate (grams/hr)	Heat Output (BTU/hr)
United States Stove Company	KP130, AP130, VG130, 5502M, 5500, 5500M, and 5500XL	1.3	25701-8932
United States Stove Company	King KP60, Ashley AP60, Vogelzang VG60	1.5	20700-8476
United States Stove Company	SP1000	1.5	31935-5813
United States Stove Company	SP22(i), SP23(i), SP24(i), SP2000(i), AP2000(i), SP2700, SP4000, SPC4000, APC4000 and 5040(i)	0.49	32788-4814

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