

Submitted by: Chair of the Assembly at the  
Request of the Acting Mayor  
Prepared by: Department of Health and  
Human Services  
For reading: May 26, 2009

CLERK'S OFFICE

ANCHORAGE, ALASKA

**APPROVED**

AR No. 2009-144

Date: 5-26-09

1 A RESOLUTION OF THE MUNICIPALITY OF ANCHORAGE ADOPTING REVISIONS  
2 TO THE ANCHORAGE CARBON MONOXIDE MAINTENANCE PLAN.  
3

4 WHEREAS, Anchorage prepared and submitted a Carbon Monoxide Maintenance Plan that  
5 was incorporated into the Alaska State Implementation Plan for Air Quality and approved by  
6 the Environmental Protection Agency in July 2004; and  
7

8 WHEREAS, in July 2008, the Anchorage Assembly enacted changes in the motor vehicle  
9 inspection and maintenance (I/M) program that extend the new car exemption from four to six  
10 years and exempts vehicles with historic or classic vehicle license plates; and  
11

12 WHEREAS, the Maintenance Plan must be amended to reflect these changes to I/M and the  
13 revised Plan must demonstrate that these changes do not jeopardize Anchorage's prospects for  
14 continued compliance with federal clean air standards; and  
15

16 WHEREAS, such amendments to the Maintenance Plan were prepared in accordance with the  
17 transportation planning process required under Section 114 of Title 23 of the United States  
18 Code and Section 110 of the Clean Air Act, and  
19

20 WHEREAS, the amended Maintenance Plan was released for public comment, reviewed by  
21 the AMATS Air Quality Advisory Committee, and recommended for approval by the AMATS  
22 Technical Advisory Committee; and  
23

24 WHEREAS, the AMATS Policy Committee approved the amended CO Maintenance Plan  
25 during their May 28, 2009 meeting; now, therefore,  
26

27 THE ANCHORAGE ASSEMBLY RESOLVES:  
28

29 **Section 1.** That the amended CO Maintenance Plan be forwarded to the Alaska  
30 Department of Environmental Conservation for inclusion in the State Implementation Plan for  
31 air quality and for approval by the Environmental Protection Agency.  
32

33 **Section 2.** This resolution shall be effective immediately upon passage and approval by the  
34 Assembly.

1 PASSED AND APPROVED by the Anchorage Assembly this 26<sup>th</sup> day of  
2 May, 2009.  
3

4 Debbie Alexander  
5 Chair  
6

7  
8 ATTEST:  
9

10 Brian S. M.  
11

12 Municipal Clerk

MUNICIPALITY OF ANCHORAGE  
ASSEMBLY MEMORANDUM

No. AM 304-2009

Meeting Date: May 26, 2009

**From:        ACTING MAYOR**

**Subject:    A RESOLUTION OF THE MUNICIPALITY OF ANCHORAGE  
ADOPTING REVISIONS TO THE ANCHORAGE CARBON  
MONOXIDE MAINTENANCE PLAN.**

The Federal Clean Air Act requires a community that has come into compliance with federal clean air standards to have a plan to maintain compliance with the standard. Anchorage attained the federal standard for carbon monoxide (CO) in 1996 and has remained in compliance since then. The current Maintenance Plan was adopted locally by AMATS and the Assembly in 2003. It includes a commitment to the continued operation of the vehicle inspection and maintenance program (I/M), the carpool and vanpool program and the promotion of engine block heaters to reduce CO emissions. The Anchorage CO Maintenance Plan is included in the State Implementation Plan (SIP) for air quality. The Environmental Protection Agency approved the Anchorage CO Maintenance Plan as an amendment to the SIP in July 2004.

In July 2008, the Anchorage Assembly enacted changes to I/M. These changes extended the "new car test exemption" from four to six years and an exemption was added for vehicles with historic and classic license plates. Annually, an estimated 17,000 vehicles will be newly exempted from I/M testing requirements as a result of the Assembly action. This is about 20% of the vehicle fleet previously subject to testing. Because I/M is a committed CO control measure in the SIP, a revised Maintenance Plan had to be prepared to demonstrate that these changes would not jeopardize Anchorage's prospects for continued compliance with the CO standard.

New analysis in the revised Plan suggests that the impact of these changes on the effectiveness of I/M in reducing CO is small and will have a negligible impact on Anchorage's prospects for continued compliance with the federal CO standard. The Plan shows that, even with anticipated growth in vehicle travel, airport activity and other CO emission sources, the probability of compliance is estimated to be 99% or higher each year between now and 2023.

The Plan was released for 30-day public comment and reviewed by the AMATS Air Quality Advisory Committee. A number of recommendations from the Air Quality Committee were incorporated. The AMATS Policy Committee approved the revised Plan on May 28, 2009.

In addition to accommodating the aforementioned modifications to the I/M Program, the revised CO Maintenance Plan includes:

- 1 • Updated CO emissions estimates for the period 2007 through 2023 that are based on  
2 more recent information about projected motor vehicle traffic volumes and projected  
3 activity levels of other CO sources such as Ted Stevens Anchorage International  
4 Airport.
- 5
- 6 • New analysis and estimates of the statistical probability of continued compliance with  
7 the CO standard through 2023.
- 8
- 9 • A new contingency plan that addresses what will be done if Anchorage violates the CO  
10 standard in the future. The draft Maintenance Plan lays out a “menu” of possible  
11 controls, one or more of which could be readily implemented if a violation occurs.  
12 The menu includes:  
13
  - 14 ○ increasing public awareness efforts to encourage use of transit, carpooling and  
15 vanpooling.
  - 16 ○ curtailing or limiting the use of fireplaces, wood stoves and other wood  
17 burning appliances when high CO is predicted.
  - 18 ○ promoting transit through fare subsidies offered through employers.
  - 19 ○ reinstating the block heater installation subsidy.
  - 20 ○ reinstating the ethanol-blended gasoline program.
- 21
- 22 • A revised CO emission budget based on updated air quality monitoring data. The new  
23 emission budget will be used in future conformity determinations on the LRTP and  
24 TIP.
- 25

26 As part of their action in July 2008, the Assembly directed the Department of Health and  
27 Human Services (DHHS) to work with the Alaska Department of Environmental Conservation  
28 (ADEC) to remove I/M as a commitment in the SIP, making it a “local option.” Thus, if a  
29 local decision were made to discontinue the program it would not require a SIP modification  
30 or the approval of the State or EPA. DHHS is currently working with ADEC and DMV to  
31 make the changes to State regulations and the SIP necessary to allow local option I/M in  
32 Anchorage. A revised SIP reflecting I/M as a local option is expected for consideration by the  
33 Assembly in early 2010. Once adopted by the Assembly, the subsequent State and EPA  
34 approval process takes 18 to 24 months.

35  
36  
37 **THE ADMINISTRATION RECOMMENDS APPROVAL OF A RESOLUTION OF**  
38 **THE MUNICIPALITY OF ANCHORAGE ADOPTING REVISIONS TO THE**  
39 **ANCHORAGE CARBON MONOXIDE MAINTENANCE PLAN.**

40  
41 Prepared by: Stephen S. Morris, Department of Health and Human Services  
42 Concur: Diane Ingle, Director, Department of Health and Human Services  
43 Concur: James N. Reeves, Municipal Attorney  
44 Concur: Michael K. Abbott, Municipal Manager  
45 Respectfully submitted: Matt Claman, Acting Mayor

## Exhibit for AM supporting Wood-Fired Boiler -AMC 15.35 amendments

### Proposed MOA Wood-fired Boiler Ordinance Compared with Regulations in Other States

	MOA Ordinance (AMC section 15.35.105)	Examples of Requirements in Other States
Setback to adjacent properties	100 feet from nearest property line	Vermont: 200 ft from another residence Connecticut: 200 ft from another residence Massachusetts: 50 ft from property line and 75 ft to nearest occupied building (EPA Phase 2 boilers only)
Chimney height	Higher than roof peaks of any habitable building within 300 feet	Connecticut: higher than all roof peaks within 500 ft, however stack height may not exceed 55 ft. Vermont: higher than roof peaks of any residence within 500 ft. Massachusetts: higher than roof peaks of any residence within 150 ft. (EPA Phase 2 boilers only).
Particulate pollution emission limit	Must meet EPA Phase 2 Limit ≤ 0.32 lbs/million BTUs	Vermont: ≤ 0.44 lbs/million BTUs Massachusetts: ≤ 0.32 lbs/million BTUs (i.e., must meet Phase 2 standard) Maine: ≤ 0.60 lbs/million BTUs, ≤ 0.32 lbs/million BTUs after March 31, 2010 (EPA Phase 2).
Opacity (smoke limitation)	≤ 20% opacity or less for an aggregate of 6 minutes in each hour except for the first 20 minutes after start-up	Connecticut: ≤ 20% for 6-minute avg and ≤ 40% for 1-minute avg Maine: ≤ 30% for 6-minute avg Massachusetts: ≤ 20% for aggregate of 2 minutes each hour except 40% during first 6 minutes of start New Hampshire: ≤ 20% for any 6-minute period except start-up, shut-down Vermont: ≤ 20% opacity or less for an aggregate of 6 minutes in each hour
Other operational requirements	May burn untreated wood, corn, natural gas or clean heating oil.	All states have similar provisions limiting burning to clean wood, wood pellets or corn. The burning of garbage, tires and treated wood is prohibited.
Vendor notification requirements to MOA	Notify DHHS upon sale if wood boiler is to be installed in MOA. Provide name of buyer, seller and make and model of unit sold and address where unit will be installed. Provide written information to buyer on wood-fired boiler requirements in the MOA	Vermont and Maine have provisions in their regulations similar to the Anchorage proposal.
Owner notification requirements to MOA	Submit plans to DHHS for approval (must show installation will meet property line setback, stack height requirements)	No similar requirements in state ordinances. Some local governments have established a permit process requiring submission and approval of plans.

Cut-away View of Typical Wood-fired Boiler

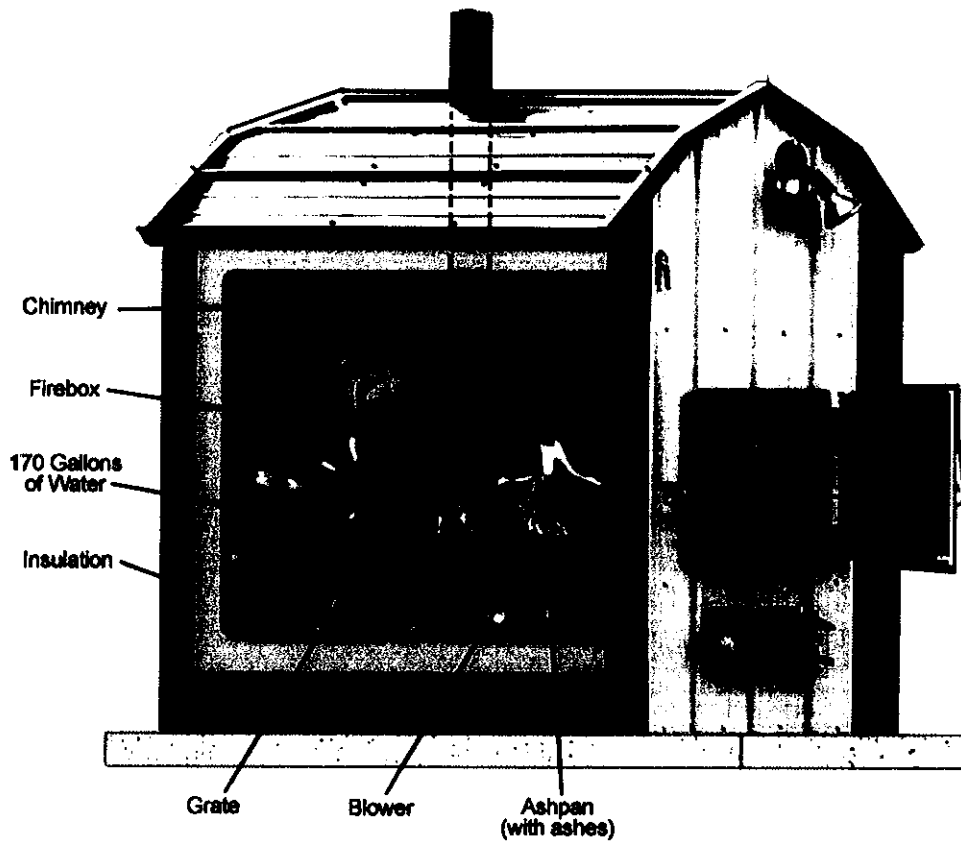


Photo from <http://www.outdoor-wood-furnace-boiler.com/images/cutaway-box.JPG>



Photo from NESCAUM, March 2006

**Content ID:** 007754**Type:** AR\_AllOther - All Other Resolutions

A RESOLUTION OF THE MUNICIPALITY OF ANCHORAGE ADOPTING

**Title:** REVISIONS TO THE ANCHORAGE CARBON MONOXIDE MAINTENANCE PLAN**Author:** pinkleyda**Initiating Dept:** HHS**Description:** A Resolution of the Municipality of Anchorage Adopting Revisions to the Anchorage Carbon Monoxide Maintenance Plan**Date Prepared:** 5/20/09 7:45 AM**Director Name:** Diane Ingle**Assembly Meeting Date:** 5/26/09

<u>Workflow Name</u>	<u>Action Date</u>	<u>Action</u>	<u>User</u>	<u>Security Group</u>	<u>Content ID</u>
Clerk_Admin_SubWorkflow	5/20/09 11:35 AM	Exit	Joy Maglaqui	Public	007754
MuniMgrCoord_SubWorkflow	5/20/09 11:35 AM	Approve	Joy Maglaqui	Public	007754
MuniManager_SubWorkflow	5/20/09 11:35 AM	Approve	Joy Maglaqui	Public	007754
CFO_SubWorkflow	5/20/09 11:34 AM	Approve	Sharon Weddleton	Public	007754
HHS_SubWorkflow	5/20/09 7:48 AM	Approve	Diane Ingle	Public	007754
AllOtherARWorkflow	5/20/09 7:47 AM	Checkin	Dallene Pinkley	Public	007754