

By: Tim Beck
Earl Romans
Introduced: 09/25/03
Advanced: 09/25/03
Amended: 10/30/03
Adopted: 10/30/03

FAIRBANKS NORTH STAR BOROUGH
ORDINANCE NO. 2003 - 71

AN ORDINANCE AMENDING THE CARBON MONOXIDE EMERGENCY EPISODE
PREVENTION PLAN INCLUDING IMPLEMENTING A WOODSTOVE CONTROL
ORDINANCE

WHEREAS, ambient concentrations of carbon monoxide, (CO) in Fairbanks since the early 1970s has resulted in portions of the Borough being designated as CO nonattainment areas; and

WHEREAS, the Fairbanks North Star Borough is working continuously to find avenues to reduce CO by implementing various control measures and programs; and

WHEREAS, approximately 2.5% of total CO emissions are caused by the use of woodstoves; and

WHEREAS, the Borough has not exceeded clean air standards since February 8, 2000, but the EPA is requiring the Fairbanks North Star Borough to submit a maintenance plan showing, with 90% certainty, how the Borough will maintain attainment of CO; and

WHEREAS, since February, 2000, the Borough has not forecasted a Stage 1 Alert (CO concentrations of nine parts per million) more than three times per year; and

WHEREAS, restricting the use of woodstoves within the non-attainment areas is necessary for the Borough to remain in attainment and to obtain approval of a maintenance plan;

NOW THEREFORE BE IT ORDAINED by the Assembly of the Fairbanks North Star Borough.

Section 1. Classification. This ordinance is of a general and permanent nature and shall be codified.

46 Section 2. FNSB 8.05.020 Episode criteria, is amended to read as
47 follows:

48 A. During the winter months of November through February [OF EACH
49 WINTER] the borough shall issue [TWICE-DAILY] a daily carbon monoxide forecast[S],
50 at four-thirty p.m. Monday through Friday. [SIX-THIRTY A.M. AND THREE-THIRTY
51 P.M.] This [THESE] forecast[S] is [ARE] based on CO data collected by the borough
52 from the carbon monoxide analyzer and meteorological reporting network. When the
53 CO concentration reaches the onset level for an episode [STAGE] and is expected to
54 [EITHER] remain at that level for twelve hours [OR RETURN TO THE LEVEL WITHIN
55 THE NEXT TWENTY-FOUR HOURS, AN EPISODE STAGE] an alert will be declared.
56 [ONCE AN EPISODE STATE IS DECLARED THE ACTIONS MANDATED FOR THAT
57 STAGE WILL BE CONTINUED UNTIL MEASUREMENTS INDICATE THAT ANOTHER
58 STAGE (LOWER OR HIGHER) HAS BEEN REACHED. THE ACTIONS FROM THAT
59 NEXT STAGE WILL THEN BE IMPLEMENTED. THIS PROCEDURE WILL CONTINUE
60 UNTIL THE EPISODE IS TERMINATED.] Once an alert is declared carbon monoxide
61 control measures set forth in this section shall be implemented and continued until the
62 alert is cancelled.

63 B. The following [EPISODE STAGE CRITERIA] definitions are adopted:

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65 1. "Alert" – when the FNSB Air Quality Division determines, using
66 available data, that a violation of the nine parts per million for an eight-hour average will
67 likely occur.

68 2. "Episode" – when conditions reach alert status.

69 3. "Forecast" – Description of the current dispersion conditions described
70 as good, fair or poor and including the expected CO concentrations expressed in parts
71 per million for an eight hour average.

72 4. "Non-Attainment Area" means:

73 (a) The Fairbanks/Fort Wainwright sub-area, including Township 1 South,
74 Range 1 West, Sections 2 through 23, the portion of Section 1 west of the Fort
75 Wainwright military reservation boundary, and the portions of Section 24 north of the
76 Old Richardson Highway and west of the military reservation boundary; (b) Township 1
77 South, Range 2 West, Sections 13 and 24, the portion of Section 12 southwest of
78 Chena Pump Road, and the portions of Sections 14 and 23 southeast of the Chena
79 River, and (c) Township 1 South, Range 1 East, Sections 7, 8, and 18, and the portions
80 of Section 19 north of the Richardson Highway and

81 (b) The North Pole sub-area, including Township 2 South, Range 2 East,
82 and the portions of Section 9 and 10 southwest of the Richardson Highway.

83 5. "Woodstove and Fireplace" – A device designed for wood fuel
84 combustion so that usable heat is derived for the interior of a building and includes
85 combination fuel furnaces or boilers that use wood.

86 [1. STAGE 1. ALERT: NINE PARTS PER MILLION (PPM) FOR AN
87 EIGHT-HOUR AVERAGE.

88 2. STAGE 2. WARNING: THIRTY PPM FOR AN EIGHT-HOUR
89 AVERAGE.

90 3. STAGE 3. EMERGENCY: FORTY PPM FOR AN EIGHT-HOUR
91 AVERAGE.]

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C. Carbon Monoxide Control Measures.

1. Implementation of a woodstove burning ban in the non-attainment area. During this ban no person may operate a woodstove unless the woodstove is the only source of heat available to the living unit. Loss of power qualifies a woodstove as being the "only source of heat" for the duration of loss of power.

2. FNSB Air Quality Division will notify local media to ensure the declared alert is broadcast. Information within the notification will contain the CO forecast and procedures to reduce sources of CO, e.g., use of public transportation, use of engine pre-heating, elimination of unnecessary use of motor vehicles.

Section 3. FNSB 8.05.030, Emergency Prevention Strategies is deleted.

A. ACTIONS TAKEN IN STAGE 1 AND STAGE 2 OF A CARBON MONOXIDE EPISODE CONSIST OF STRATEGIES AIMED AT PREVENTING AN AIR POLLUTION EMERGENCY (FORTY PPM FOR AN EIGHT-HOUR AVERAGE) FROM OCCURRING. THESE EMERGENCY PREVENTION STRATEGIES INVOLVE ENLISTING VOLUNTARY COOPERATION FROM THE POPULACE OF THE BOROUGH IN REDUCING THE CARBON MONOXIDE LEVELS IN THE AREA.

B. WHEN A STAGE 1 ALERT (NINE (9) PPM FOR AN EIGHT-HOUR AVERAGE) IS INITIATED, THE FOLLOWING ACTIONS WILL BE TAKEN:

1. THE BOROUGH WILL ANNOUNCE AN AIR QUALITY ALERT VIA THE DAILY FORECASTS AND ASK THE PUBLIC TO ELIMINATE UNNECESSARY VEHICLE IDLING AND DRIVING.

2. THE BOROUGH WILL INITIATE AN EVENT LOG AND ACTIONS TAKEN DURING THE ALERT WILL BE RECORDED.

3. THE BOROUGH WILL ALERT ALL CONCERNED AGENCIES BY TELEPHONE.

4. THE BOROUGH MAY SUSPEND FARES ON THE BOROUGH'S TRANSIT SYSTEM FOR THE DURATION OF THE ALERT.

5. ABOVE TWENTY PPM THE BOROUGH WILL MAKE RADIO ANNOUNCEMENTS ASKING PERSONS WHO MAY BE PHYSICALLY SENSITIVE TO AVOID CONGESTED TRAFFIC AREAS.

6. ABOVE TWENTY PPM THE BOROUGH WILL CONTACT VEHICLE FLEETS AND ASK FOR COOPERATION IN REDUCING TRAFFIC ACTIVITY INTO THE HIGH CARBON MONOXIDE AREAS.

7. ABOVE TWENTY PPM THE BOROUGH WILL ASK RADIO STATIONS TO RUN FREQUENT PUBLIC SERVICE ANNOUNCEMENTS REQUESTING THE PUBLIC TO REDUCE VEHICLE IDLING AND DRIVING AS MUCH AS POSSIBLE AND TO PREHEAT VEHICLES THAT MUST BE DRIVEN TO REDUCE COLD-START EMISSIONS.

8. BOROUGH PERSONNEL WILL BE DISPATCHED INTO THE FIELD WITH PORTABLE CARBON MONOXIDE ANALYZERS TO DEFINE THE BOUNDARIES OF THE HIGH CARBON MONOXIDE AREAS.

C. WHEN A STAGE 2 ALERT (THIRTY PPM FOR AN EIGHT-HOUR AVERAGE) IS IMPLEMENTED THE FOLLOWING ACTIONS WILL BE TAKEN:

- 138 1. STAGE 1 ACTIONS ARE CONTINUED.
139 2. THE BOROUGH WILL ASK ALL VEHICLES NOT TO ENTER THE
140 HIGH CARBON MONOXIDE AREAS AS DEFINED BY THE BOROUGH.
141 3. THE BOROUGH WILL ASK EMPLOYERS AND EMPLOYEES IN
142 THE HIGH CONCENTRATION AREA TO CARPOOL OR TO USE THE TRANSIT
143 SYSTEM.
144 4. THE BOROUGH WILL ASK THE CITY POLICE TO TICKET ANY
145 UNATTENDED IDLING VEHICLES WITHIN THE HIGH CO AREAS.]

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147 Section 4. FNSB 8.05.040, Emergency Abatement Strategies is deleted.

148 [A. STAGE 3 ACTIONS CONSIST OF CONTINUING THE
149 VOLUNTARY PREVENTION MEASURES INITIATED IN STAGE 1 AND STAGE 2 OF
150 THE AIR POLLUTION EPISODE, COUPLED WITH THE IMPLEMENTATION OF
151 MANDATORY EMERGENCY ABATEMENT STRATEGIES DESIGNED TO QUICKLY
152 REDUCE CARBON MONOXIDE CONCENTRATIONS WITHIN THE AFFECTED
153 AREA.

154 B. WHEN A STAGE 3 ALERT (FORTY PPM FOR AN EIGHT-HOUR
155 AVERAGE) IS IMPLEMENTED THE FOLLOWING ACTIONS WILL BE TAKEN:

- 156 1. STAGE 1 AND 2 ACTIONS ARE CONTINUED.
157 2. A TASK FORCE COMPRISED OF THE FAIRBANKS CITY
158 MANAGER, THE BOROUGH MAYOR, AND THE GOVERNOR'S REPRESENTATIVE
159 IN FAIRBANKS WILL DIRECT THE IMPLEMENTATION OF THE FOLLOWING
160 MANDATORY STRATEGIES:

161 A. ALL CITY OF FAIRBANKS, STATE AND BOROUGH
162 EMPLOYEES ARE EXCUSED FROM WORK, WITH THE EXCEPTION OF
163 EMERGENCY EMPLOYEES.

164 B. THE TASK FORCE WILL ASK ALL EMPLOYERS LOCATED
165 WITHIN AREAS EXCEEDING FORTY PARTS PER MILLION OF CO FOR AN EIGHT-
166 HOUR AVERAGE TO EXCUSE THEIR EMPLOYEES FROM WORK AND TO CLOSE
167 THEIR BUSINESSES UNTIL THE STAGE 3 EPISODE IS ABATED.

168 C. THE TASK FORCE WILL REQUEST THAT THE CITY POLICE
169 CLOSE THE AREAS EXCEEDING FORTY PARTS PER MILLION TO ANY TRAFFIC
170 OTHER THAN EMERGENCY VEHICLES.]

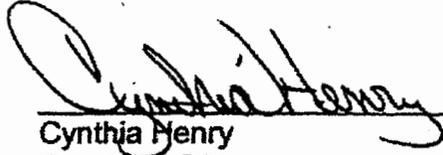
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172 Section 5. FNSB 8.05.030, Episode Termination is deleted.

173 [AS THE EPISODE ABATES AND THE CARBON MONOXIDE
174 CONCENTRATIONS DECREASE, THE ACTIONS SPECIFIED FOR EACH STAGE
175 WILL BE DISCONTINUED AS THE LEVEL DROPS BELOW AND IS EXPECTED TO
176 REMAIN BELOW THE ONSET CONCENTRATION FOR THAT STAGE.]

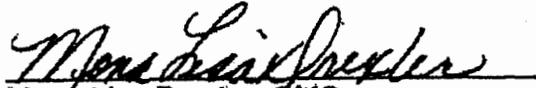
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178 Section 6. Effective Date. This ordinance shall become effective at 5:00
179 p.m. on the first Borough business day following its adoption.

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PASSED AND APPROVED THIS 30TH DAY OF OCTOBER 2003.


Cynthia Henry
Presiding Officer

ATTEST:


Mona Lisa Drexler, CMC
Municipal Borough Clerk

Ayes: Romans, Hutchison, Sattley, Rex, Bartos, Williams, Beck, Frank, Aldridge, Cummings,

Henry

Noes: None

