

ORDINANCE NO. 2A1

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3
4 AN ORDINANCE REGULATING THE INSTALLATION OF OIL BURNING EQUIPMENT
5 AND FOR THE STORAGE AND USE OF OIL FUELS IN CONNECTION THEREWITH.
6 THE CITY COUNCIL OF THE TOWN OF SAN ANSELMO DOES ORDAIN AS FOLLOWS
7

8 SECTION 1. DEFINITION:

9 The term Oil Fuel or Fuel Oil as used in the title and the
10 body of this ordinance shall mean any liquid fuel with a flash
11 point not lower than 110 F., Pensky-Martens closed cup testor.
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13 SECTION 2. PERMIT REQUIRED:

14 (a) No person, firm, association or corporation shall in-
15 stall or remodel any oil burner, storage tank, or oil burning e-
16 quipment without having first obtained a permit therefor from the
17 Fire Marshall. A permit shall be required for each act of re-
18 modeling or installation.

19 (b) Every owner of any oil burner, storage tank, or oil
20 burning equipment installed or remodeled under the provisions of
21 this ordinance, shall, before using said equipment, obtain the
22 approval of the Fire Marshall of the equipment and its installa-
23 tion. Such approval shall be evidenced by a written permit to
24 use, issued by the Fire Marshall after examination of the equip-
25 ment and premises.

26 SECTION 3. APPROVAL OF BURNERS AND STORAGE TANKS:

27 It shall be unlawful to install any oil burner, storage
28 tank, or oil burning equipment of any kind, which has not been
29 approved by the fire Marshall, or the National Board of Fire Un-
30 derwriters Regulations, and which is not equipped with suitable
31 automatic safeguards to prevent flooding of the burner.

32 SECTION 4. INSTALLATION:

(a) Installation of oil burners, storage tanks, and oil

1 burning equipment, must in every case be made to the satisfaction
2 and approval of the Fire Marshall. In giving, or refusing to give
3 his approval of any such installation, the Fire Marshall shall be
4 guided and governed by the provisions of the Ordinance and by the
5 "Regulations of the National Board of Fire Underwriters for the
6 installation of Oil Burning Equipments" wherein said regulations
7 are not in conflict with the provisions of this Ordinance.

8 Copies of said Regulations are on file in the Office of the City
9 Clerk, of the Town of San Anselmo, State of California.

10 SECTION 4.

11 (a) Where the circumstances or conditions of any particular
12 installation are unusual and such as to render the strict applica-
13 tion of these regulations impracticable, the Fire Marshall may
14 permit such modifications as will provide a substantially equiva-
15 lent degree of safety.

16 (b) Oil burners for which a competent attendant will be
17 constantly on duty in the room where the burner is located, while
18 the burner is in operation, are not required to be equipped with
19 automatic means for preventing abnormal discharge of oil at the
20 burner. When automatic features are installed in connection with
21 oil burners of this type such automatic devices shall be specifi-
22 cally approved for use with the burner to which they are attached.

23 SECTION 5. GRAVITY FEED TO BURNERS

24 (a) Gravity feed shall be used only with burners arranged
25 to prevent abnormal discharge of oil at the burner by automatic
26 means specifically approved for the burner with which it is used.

27 (b) Gravity supply tanks shall not exceed 275 gallons in-
28 dividual capacity. Where more than one gravity supply tank is
29 used, such tanks shall be connected to the feed pipe leading to
30 the burner through a manually operated, approved three-way valve
31 in such a way that only one tank can discharge its contents at a
32 time.

1 SECTION 6. INSTALLATION OF UNDERGROUND TANKS

2 Underground tanks shall be so buried as to have a cover of
3 earth not less than 2 feet thick, or shall be covered with not
4 less than 1 foot of earth, on top of which shall be placed a slab
5 of reinforced concrete not less than 4 inches thick. The slab
6 shall be set on a firm, well tamped earth foundation and shall
7 extend at least 1 foot beyond the tank in all directions. Where
8 tanks are buried underneath buildings such a concrete slab shall
9 be provided in every instance.

10 SECTION 7. INSTALLATION OF TANKS INSIDE BUILDINGS.

11 (a) Oil supply tanks larger than 10 gallons capacity shall
12 not be located in buildings above the lowest story, cellar or base-
ment, and no such oil supply tank larger than ten gallons capacity shall be
installed in Fire Zone No. 1, unless the same be installed in accordance with
subdivision (c) hereof, or buried, as provided in section 6 hereof.

13 (b) Unenclosed inside storage tanks and auxiliary tanks of a
14 capacity of more than 3 gallons, shall not be located within 7
15 feet, horizontally, of any fire or flame.

16 (c) Oil supply tanks located inside buildings shall not ex-
17 ceed 275 gallons individual capacity or 550 gallons aggregate ca-
18 pacity (in one building), unless installed in an enclosure or cas-
19 eing constructed as follows:

20 The walls of the enclosure shall be constructed of rein-
21 forced concrete at least 6 inches thick or of brick at least 8
22 inches thick, and shall be bonded to the floor. The space between
23 the tank and the enclosure shall be completely filled with sand or
24 well tamped earth. Where the floor or other construction immedi-
25 ately above the tank is of fire-resistive construction capable of
26 safely sustaining a load of 150 pounds per square foot, the walls
27 of the enclosure shall be carried to a height of not less than 1
28 foot above the tank and the space filled with sand or well tamped
29 earth to the top; otherwise the enclosure shall have a top of re-
30 inforced concrete at least 5 inches thick or of equivalent con-
31 struction. Instead of an enclosure as above described the tank
32 may be encased in reinforced concrete not less than 6 inches in
thickness, applied directly to the tank so as to completely
eliminate any air space.

30 SECTION 8. INSTALLATION OF OUTSIDE ABOVE GROUND TANKS

31 (a) Outside aboveground tanks shall not be located in close-
ly built-up areas.

32 (b) The distance from outside aboveground tanks to line of
adjoining property or nearest building shall not be less than set
forth in the table below.

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Capacity of tanks, Gallons	Minimum Distance, Feet
750 or less	5
1,100 or less	10
3,000 or less	20

(c) Outside aboveground tanks shall be set on a firm foundation. Those more than one foot above the ground shall have supports of masonry or protected steel except that wooden cushions may be used. No combustible material shall be stored under or within 10 feet of outside aboveground tanks.

SECTION 9. CONSTRUCTION OF TANKS :

(a) Underground tanks and tanks inside buildings shall be constructed of steel or wrought iron of a minimum gauge (U. S. Standard) in accordance with the following table, except that for tanks of 181 to 275 gallons capacity, installed in buildings, and without masonry enclosures the minimum gauge shall be No. 14. Steel or wrought iron not thinner than No. 7 gauge used in the construction of underground and enclosed tanks shall be galvanized.

Capacity, Gallons	Minimum Thickness	Weight Lb. per sq. feet.
7 to 285	16 gauge	2.50
286 to 560	14 gauge	3.125
561 to 1100	12 gauge	4.375
1,101 to 4000	7 gauge	7.50

(b) Outside aboveground tanks, including tops, shall be constructed of steel or wrought iron of a thickness in accordance with the following requirements.

Horizontal or Vertical Tanks Not over
1,100 Gallons Capacity.

Capacity Gallons	Minimum Thickness of Material
1 to 60	18 Gauge U.S. Standard
61 to 350	16 gauge U.S. Standard
351 to 560	14 gauge U.S. Standard
561 to 1100	12 gauge U.S. Standard

(c) Joints shall be riveted and calked, brazed, welded or made tight by some equally satisfactory process. Tanks shall be tight and sufficiently strong to bear without injury the most severe strains to which they may be subjected in practice. Shells of tanks shall be properly reinforced where connections are made. All connections to storage tanks other than outside aboveground storage tanks, shall be made through the top of tank above the liquid level, except that tanks of not over 275 gallons capacity may have one bottom connection for gravity feed and one opening for an approved key stem gate valve to facilitate cleaning or for a scavenging line to be run to the outside and capped oil tight when not in use.

(d) Tanks shall be thoroughly coated on the outside with tar

1 asphaltum, or other suitable rust-resisting paint. Where placed
2 in corrosive soil special protection may be required.

3 (e) All Tanks shall bear Underwriters Laboratories Label of
4 approval.

5 SECTION 10. TANK VENTS

6 (a) Storage tanks shall (except for hydraulic or inert gas
7 systems) be equipped with an open vent or an approved automati-
8 cally operated vent, arranged to discharge to the open air. Vent
9 openings and vent pipes shall be of ample size to prevent abnormal
10 pressure in the tank during filling but not smaller than 1½ inch
11 pipe size.

12 (b) Vent pipes shall be arranged to drain to the tank. The
13 lower end of the vent pipe shall not extend through the top of the
14 tank for a distance of more than one inch.

15 (c) Vent pipes shall terminate outside of buildings at a
16 point not less than 2 feet measured vertically or horizontally
17 from any window or other building opening. Outer ends of vent
18 pipes shall be provided with a weatherproof hood. Vent pipes
19 should terminate sufficiently above the ground to prevent their
20 being obstructed with dirt or weeds. Vent pipes of tanks con-
21 taining heaters shall be extended to a location where oil vapors
22 discharging from the vent will be readily diffused without danger
23 of ignition.

24 (d) Vent pipes shall not be cross-connected with fill pipes
25 or return lines from burners.

26 SECTION 11. TANK FILL AND OVERFLOW PIPES.

27 (a) Storage tanks, other than outside aboveground tanks,
28 shall be filled only through fill pipes terminating outside of
29 buildings at a point at least 5 feet from any building opening
30 at the same or lower level. Fill terminals shall be closed tight,
31 when not in use, by a metal cover designed to prevent tampering.

32 SECTION 12. OIL PUMPS

1 (a) Oil pumps shall be of approved type, secure against leaks
2 and shall be rigidly fastened in place.

3 (b) Automatic pumps not an integral part of the burner shall
4 be arranged to stop automatically in case of total breakage of the
5 supply line to the burner.

6 SECTION 13. PIPING

7 (a) All piping shall be standard full weight wrought iron,
8 steel or brass pipe with standard fittings or approved brass or
9 copper tubing with approved fittings, except that approved flexi-
10 ble metal hose may be used for reducing the effects of jarring and
11 vibration or where rigid connections are impracticable.

12 (b) Pipe used in the installation of domestic type burners
13 shall not be smaller than ½ inch iron pipe size; pipe used in the
14 installation of industrial type burners shall not be smaller than
15 ¾ inch iron pipe size. Copper or brass tubing shall not be small-
16 er in size than the equivalent of the iron pipe sizes mentioned
17 above, with wall thickness not less than 0.049 inch. Flexible metal
18 hose shall be installed strictly in accordance with the limitations
19 of its approval.

20 (c) Piping shall be rigidly secured in place and protected
21 from injury in a workmanlike manner and where necessary shall be

1 protected against corrosion. Where practicable, oil piping shall
2 be buried underground or in a concrete floor or placed in a metal
covered pipe trench.

3 (d) Oil supply lines to burners shall be provided with ap-
4 proved strainers.

5 SECTION 14. VALVES:

6 (a) A shut-off valve shall be installed at each tank in the
discharge line from the tank.

7 (b) Shut-off valves independent of the burner valves must be
8 installed in the lines on each side of any exterior building wall
9 which they penetrate, and the valve on the inside of the wall is
10 to be a standard fusible type of valve, approved by the Fire
11 Marshall. The shut-off valves used at the tanks and elsewhere a-
long the lines must be of a type approved by the Fire Marshall.

12 SECTION 15. OIL BURNER CONTROLS:

13 (a) Oil burning equipments shall be provided with some means
14 for manually stopping the flow of oil to the burner, from a con-
15 veniently located point at a safe distance from the burner. With
16 electrically driven equipment this may be accomplished by a switch
17 in the motor supply circuit, placed near the entrance to the room
18 where the burner is located. A quick-closing valve in the oil
supply line, preferably located outside the building, may also be
used.

19 (b) Automatically operated oil burners used in connection
20 with hot water, steam or warm air heating systems shall be equipped
21 with approved automatic devices to shut down the burner in the e-
22 vent of undue pressure in a steam boiler or overheating within a
23 hot water boiler or warm air furnace.

24 (c) Electric wiring and equipment in connection with oil burn-
25 ing equipments shall be installed in accordance with the National
26 Electrical Code.

27 SECTION 16. FLUES:

28 (a) Boilers and furnaces in which oil burners are installed
29 shall be connected to flues having sufficient draft at all times
30 to assure safe operation of the burner. Smoke pipe dampers, if
31 any shall be such that they cannot close off more than 80 percent
32 of the internal cross section area of the smoke pipe.

(b) Contractors installing industrial oil burning systems
shall furnish diagrams showing the main oil lines and controlling
valves, one of which shall be posted near the oil burning equip-
ment and another at some point which will be accessible in case of
fire at the burners.

SECTION 17. REVOCATION OR SUSPENSION OF PERMIT:

Any license, permit or approval issued by the Fire Marshall
may be revoked or suspended by him for cause, subject to appeal
as hereinafter provided.

SECTION 18. APPEALS:

Any person claiming to be aggrieved by the action of the Fire

1 Marshall relative to the issuance, revocation or suspension of a
2 license, permit or approval as herein provided, may appeal from
3 such action to the City Council of the Town of San Anselmo, Coun-
4 ty of Marin, State of California. The City Council shall assign
5 a hearing upon such appeal and give applicant at least 5 days
6 notice, in writing, of the time and place thereof. The decision
7 of the majority of said Council, shall be controlling upon the
8 Fire Marshall.

9 SECTION 19. PENALTIES:

10 Any person who shall violate any provision of this ordinance
11 or fail to comply therewith, or who shall violate or fail to com-
12 ply within ten days with any order or regulation made thereunder,
13 *shall be guilty of a misdemeanor and upon conviction thereof,*
14 shall be fined not more than twenty-five dollars (\$25.00) for the
15 first offense, and not more than fifty dollars (\$50.00) for any
16 subsequent offense.

16 SECTION 20.

17 Ordinances No. 134 and No. 177 and all other ordinances or
18 parts of ordinances inconsistent with the provisions of this or-
19 dinance are hereby repealed.

20 ~~SECTION 21.~~

21 ~~This Ordinance shall become effective thirty days after its~~
22 ~~final passage, unless suspended by a referendum petition filed as~~
23 ~~provided by law.~~

24 SECTION 22.

25 This ordinance shall be published once within fifteen days
26 after its final passage in the "MARIN HERALD" a newspaper of gen-
27 eral circulation published and circulated in said town.

1 SECTION 23.

2 This Ordinance is declared to be one of urgency and
3 necessity and for the protection of the public peace, health,
4 and safety, and shall take effect immediately upon its passage
5 and approval. The facts constitution such urgency are that many
6 persons and firms are installing in the Town of San Anselmo
7 dangerous and unsuitable oil burning equipment, and oil
8 storage tanks, to such an extent that many fire hazards and
9 menaces have been created, and unless this ordinance shall take
10 effect immediately, many more persons and firms will install
11 such equipment and tanks to the danger of all the residents
12 of the Town of San Anselmo.

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15 The foregoing ordinance was fully and regularly introduced
16 and read at an adjourned regular meeting of the City Council of
17 the Town of San Anselmo, held in said Town on the 15th day of
18 December, 1936, and was thereafter, at a regular meeting of said
19 Council, duly read as amended, on the 24th day of January, 1937,
20 and was thereafter, at a regular adjourned meeting of said
21 City Council, held in said Town on the 11th day of February,
22 1937, duly passed and adopted by the following vote.

23 AYES : Councilmen Franchin, Millard, Carroll, White, Lynch
24 NOES : None
25 ABSENT : None

26 SIGNED and Approved this 11th day of February, 1937.

27

28 W. W. Lynch
29 Mayor of the Town of San Anselmo

30 ATTEST: J. A. Brown
31 CLERK of the Town of San Anselmo