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ORDINANCE NO. 1482

AN ORDINANCE OF THE CITY OF MANHATTAN BEACH,
CALIFORNIA, REPEALING EXISTING CHAPTER 4,
TITLE 9 OF THE MANHATTAN BEACH MUNICIPAL
CODE AND ADDING A NEW CHAPTER 4 ADOPTING
AN ELECTRICAL CODE (INCORPORATING BY REFERENCE
THE STATUTES OF THE STATE OF CALIFORNIA
ELECTRICAL SAFETY ORDERS PUBLISHED BY THE
DIVISION OF INDUSTRIAL SAFETY OF THE STATE
OF CALIFORNIA AND THE NATIONAL ELECTRICAL
CODE 1975 EDITION)

The Council of the City of Manhattan Beach, California,
does ordain as follows:

SECTION 1. REPEALS. Chapter 4 of Title 9 of the
Manhattan Beach Municipal Code is hereby repealed.

SECTION 2. AMENDMENT OF CODE. A new Chapter 4 is
hereby added to Title 9 of said Code to read as follows:

CHAPTER 4. ELECTRICAL CODE

SEC. 9-4.01. Title.

The regulations contained in this chapter shall
be known as the "Electrical Code."

SEC. 9-4.02. Scope.

The provisions of this Code shall apply to the
construction, maintenance, alteration, moving, repair and use
of any electrical wiring on any premises within the City,
except that of the Federal Government, that of the State of
California, Public Utilities as specified in Section 9-4.07,
work located primarily in a public way and mechanical equipment
not specifically regulated in this Code.

SEC. 9-4.03. Administration.

The Director of Community Development shall
administer the provisions of this chapter. Whenever the term
"Electrical Inspector" is used in this chapter, such term shall
be construed to mean the Director of Community Development or
his authorized representative.

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1 SEC. 9-4.04. Definitions.

2 (a) Apartment House shall be as defined in
3 Section 10-3.207 of the Municipal Code.

4 (b) Building is any structure built for the
5 support or shelter of persons, animals, chattels or property
6 of any kind.

7 (c) Electrical Contractor is a person who is
8 engaged in the business of installing or repairing electrical
9 wiring or equipment, or who does, or holds himself out as willing
10 to do personally or through his employees any work or services
11 in connection with the installation, alteration or repair of
12 any electrical wiring or equipment or part thereof within the
13 City of Manhattan Beach and who possesses an appropriate con-
14 tractor's license pursuant to Chapter 9, Division 3 of the
15 Business and Professions Code of the State of California.

16 (d) Dwelling is any building or any portion
17 thereof which is not an "Apartment House," "Motel" or "Hotel"
18 as defined in paragraph (f) below, which contains one or more
19 "Apartments" or "Guest Rooms," used, intended or designed to
20 be built, used, rented, leased, let or hired out to be occupied,
21 or which are occupied for living purposes.

22 (e) Electrical or Electrical Wiring means the
23 installation or the alteration of any material, fixtures, device,
24 appliance or equipment in or on any building, structure or
25 premises, used or designed or intended to be used to generate,
26 transmit, transform or utilize electric energy.

27 (f) Hotel or Motel shall be as defined in Section
28 10-3.246 and Section 10-3.264 of the Municipal Code.

29 (g) Maintenance Electrician is any electrician
30 regularly employed in accordance with the provisions of Section
31 9-4.06 of the Municipal Code.

32 (h) Person is an individual human being, a firm,

1 partnership or corporation, his or their heirs, executors,
2 administrators, assigns, officers or agents, the City of
3 Manhattan Beach and any municipal or quasi-municipal government,
4 agency or district, or officers thereof.

5 (i) Public Utilities. The terms "electrical
6 corporation," "telephone corporation," "telegraph corporation,"
7 and "railroad corporation" are herein used as said terms are
8 respectively defined in the Public Utilities Act of the State
9 of California, and such terms shall also be deemed to include
10 similar utilities which are municipally or governmentally owned
11 and operated.

12 SEC. 9-4.05. Applications and permits.

13 (a) Applications. Applications for electrical
14 permits, describing the work to be done, shall be made in
15 writing by an Electrical Contractor, maintenance electrician
16 or their authorized representative.

17 Applications shall give the location where
18 such work is to be done either by street and house number, by
19 lot, block and tract or similar description that will readily
20 identify and definitely locate the proposed work. For work on
21 other than a single family dwelling on a separate lot, a plan of
22 the electrical work and a load schedule shall be submitted prior
23 to rough inspection.

24 Application shall be made by an Electrical
25 Contractor, or a firm, partnership or corporation, any officer
26 or member of which is an Electrical Contractor, in the event
27 that all construction or work is done under the direct personal
28 supervision of such Electrical Contractor or a maintenance
29 electrician.

30 EXCEPTION: Special Owner's Permit. The
31 Electrical Inspector may issue to an individual a special owner's
32 permit authorizing said individual to install, alter, change or

1 repair electrical equipment in, on or about a single family
2 dwelling of which said individual is owner and in which he
3 resides or intends to reside, but not elsewhere; provided, that
4 no electrical work authorized under any such special owner's
5 permit shall be done, nor shall the owner holding any such permit
6 allow any such work to be done, except personally by the owner
7 to whom the permit is issued, or by a member of his immediate
8 family; and if this or any other provision hereof shall be
9 violated by the holder of such special owner's permit, such
10 permit shall be subject to immediate cancellation by the
11 Electrical Inspector, and the holder thereof shall be liable to
12 the penalty hereinafter provided for violation of this Code.

13 (b) Permits. No alteration or addition shall be
14 made to any existing wiring, nor shall any wiring for the placing
15 or installation of any electric light, power or heating device,
16 or any apparatus which generates, transmits, transforms or
17 utilizes electricity, operating at a voltage exceeding 25 volts
18 between conductors, or capable of supplying more than 50 watts,
19 be made without first obtaining a permit therefor from the
20 Electrical Inspector, excepting minor repair work such as re-
21 pairing flush and snap switches, replacing fuses, changing lamp
22 sockets and receptacles, taping bare joints, repairing drop cords
23 and the like.

24 (c) Issuance of Permit. The application, plans
25 and specifications filed as required by this section shall be
26 checked by the Electrical Inspector and if found to be in
27 conformity with the requirements of this Code and all other laws
28 or ordinances applicable thereto, the Electrical Inspector shall,
29 upon receipt of the required fee, issue a permit therefor.
30 Every permit issued shall be valid only for the location described
31 on the application therefor.

32 (d) Expiration of Permit. Every permit issued

1 by the Electrical Inspector under the provisions of this Code
2 shall expire by limitation and become null and void, if the
3 building or work authorized by such permit be not commenced
4 within sixty (60) days from the date of such permit, or, if the
5 building or work authorized by such permit be suspended or
6 abandoned at any time after the work is commenced for a period
7 of sixty (60) days. Before such work can be thereafter
8 commenced, a new permit shall be first obtained so to do.

9 (e) Revocation. Submission of a false statement
10 shall constitute sufficient cause for revocation of any permit
11 issued under the authority of this chapter.

12 SEC. 9-4.06. Maintenance electricians.

13 Any person regularly employing one or more
14 electricians for the purpose of installation, alteration,
15 maintenance or repair on his or its own premises, shall make
16 monthly reports covering all installations, additions or altera-
17 tions and shall pay for each thereof the permit fees provided
18 for in this chapter. All such work shall be installed and done
19 in accordance with the provisions of this chapter and such work
20 shall be subject to inspection by said Electrical Inspector to
21 the same extent as all other similar work for which such
22 inspection is provided.

23 SEC. 9-4.07. Public utilites exempted.

24 The provisions of this chapter shall not apply
25 to any electrical work performed by any electrical corporation
26 or railroad corporation on or with any electrical equipment
27 owned or controlled and operated or used by, and for the
28 exclusive benefit of, such corporation in the conduct of its
29 business as a public utility, or to any other work which any
30 such corporation may be entitled by law to perform without pay-
31 ment of any local tax; but all provisions of this chapter shall
32 apply insofar as they may consistently with the above be

1 applicable to all other electrical work performed by any such
2 corporation.

3 SEC. 9-4.08. Inspection.

4 (a) Permission to cover work. It shall be unlaw-
5 ful for any person to lath over, seal, cover or conceal any
6 electrical wiring or other electrical equipment, for the
7 installation of which a permit is provided herein, until such
8 electric wiring or other electrical equipment shall have been
9 inspected and approved by the Electrical Inspector. The
10 Electrical Inspector shall have the power to remove, or to
11 require the removal of any obstruction which prevents proper
12 inspection of any electrical equipment.

13 (b) Corrections. All defects shall be corrected
14 within ten (10) days after inspection and notification or
15 within such other reasonable time as is permitted by the
16 Electrical Inspector.

17 (c) Approval. Upon the completion of the electri-
18 cal wiring in or on any building or structure of any nature, or
19 tent, or premises, except as otherwise exempted in this chapter,
20 the person, firm or corporation installing the same shall notify
21 the Electrical Inspector, who shall inspect such installation,
22 and if it is found by him to be fully in compliance with the
23 provisions of this chapter, he shall issue, as provided for
24 herein, the certificate of inspection or approval tag authorizing
25 connection to the electrical service and the energizing of the
26 installation.

27 (d) Connection. It shall be unlawful to energize
28 or cause or permit to be energized any electrical wiring coming
29 under the provisions of this chapter, until such electrical
30 wiring shall have been inspected and approved by the Electrical
31 Inspector. Provided, however, that the Electrical Inspector may
32 give written temporary permission to furnish electric current to,

1 or the use of electric current through, any electrical wiring
2 for a length of time not exceeding thirty (30) days, if it appears
3 to said Electrical Inspector that such electrical wiring may be
4 used safely for such purpose and that there exists an urgent
5 necessity for such use.

6 SEC. 9-4.09. Right of Access.

7 The Electrical Inspector shall have the right
8 during reasonable hours to enter any building in the discharge
9 of his official duties, or for the purpose of making any inspection
10 or test of the installation of any inspection or test of the
11 installation of any electrical wiring, electric device or electri-
12 cal material contained therein.

13 SEC. 9-4.10. Re-inspection.

14 (a) The Electrical Inspector is hereby authorized
15 and empowered to make at such times and as often as in his dis-
16 cretion it may seem necessary, a thorough re-inspection of the
17 installation in or on any building, structure or premises of all
18 electrical wiring, electrical device and electrical material now
19 installed or that may hereafter be installed within the incorpo-
20 rated territory of said City of Manhattan Beach and when the
21 installation of any such wiring, device or material is found to
22 be in a dangerous or unsafe condition, the person, firm, corpora-
23 tion or governmental agency owning, using or operating the same
24 shall be notified in writing and shall make the necessary repairs
25 or changes required to place such wiring, device or material in a
26 safe condition and to have such work completed within a period of
27 ten (10) days after such notice or within such other reasonable
28 period specified by the Electrical Inspector in said notice and
29 shall obtain the required permits and pay such fees as are re-
30 quired by the provisions of this chapter.

31 (b) The Electrical Inspector is hereby empowered
32 to disconnect or to order the discontinuance of electrical service

1 to wiring, devices or materials found to be defective until the
2 installation of such wiring, device or material has been made
3 safe as directed by the Electrical Inspector, and any person,
4 firm, corporation, political subdivision or governmental agency
5 ordered to discontinue such electrical service shall do so within
6 twenty-four (24) hours after the receipt of such notice and shall
7 not reconnect such service or allow the same to be reconnected
8 until notified so to do by the Electrical Inspector; provided,
9 however, that no reinspection shall be made in any dwelling house,
10 while the same is occupied as a dwelling house, without the con-
11 sent of the occupant thereof. It shall be unlawful for any
12 person, firm or corporation to hinder or prevent, or cause or
13 permit to be hindered or prevented, the Electrical Inspector or
14 his duly authorized representative from making any electrical
15 inspection provided for in this chapter.

16 SEC. 9-4.11. Fees.

17 (a) Any person desiring an electrical permit shall
18 at the time of filing an application therefor, pay to the City
19 fees established by the Council under separate resolution.

20 (b) Any person who shall commence any electrical
21 work for which a permit is required by this chapter without first
22 having obtained a permit therefor shall, if such permit is subse-
23 quently issued, pay double the permit fee fixed by this section
24 for such work; provided, however, that this provision shall not
25 apply to emergency work when it shall be proved to the satisfaction
26 of the Electrical Inspector that such work was urgently necessary
27 and that it was not practicable to obtain a permit therefor before
28 before the commencement of the work. In all such cases a permit
29 must be obtained as soon as it is practicable to do so, and if
30 there be an unreasonable delay in obtaining such permit, a double
31 fee as herein provided must be paid.

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1 SEC. 9-4.12. General construction requirements.

2 (a) Installation. All electrical installations
3 in the City of Manhattan Beach shall be in conformity with the
4 provisions of this Code, the Statutes of the State of California,
5 and shall be in conformity with approved standards for safety to
6 life and property. Where no specific type or class of material
7 or no specific standards are prescribed by the Statutes of the
8 State of California, by regulations issued under the authority
9 of the State Statutes or by this Code, conformity with the
10 regulations of the National Electrical Code, 1975 Edition, as
11 published by the National Fire Protection Association, shall be
12 prima facie evidence of conformity with approved standards for
13 safety to life and property.

14 (b) Materials. All electrical materials, devices,
15 appliances and equipment installed or used in the City of Man-
16 hattan Beach shall be in conformity with the provisions of this
17 Code, the Statutes of the State of California, under the authority

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1 of the State Statutes, and shall be in conformity with approved
2 standards for safety to life and property. Except where, by the
3 Statutes of the State of California by orders issued under the
4 authority of the State Statutes or by this Code, a specific type
5 or class of material, device, appliance or equipment is disap-
6 proved for installation or use, conformity with the then current
7 standards of Underwriters Laboratories, Inc., as approved by the
8 American Standards Association, or other national recognized
9 testing laboratory, shall be prima facie evidence of conformity
10 with approved standards for safety to life and property.

11 (c) Documents on file. Three (3) copies of each
12 of the hereinbefore specified documents, the National Electrical
13 Code, 1975 Edition, published by the National Fire Protection
14 Association are on file at the office of the City Clerk and are
15 hereby incorporated by reference and made a part hereof in
16 accordance with the laws of the State of California.

17 (d) Identification mark. Manufacturer's name,
18 trade-mark or other identification symbol, shall be placed on
19 all electrical materials, devices, appliances and equipment used
20 or installed under this Code.

21 SEC. 9-4.13. Installation requirements.

22 (a) All wiring installed in or on buildings or
23 structures shall be in rigid metal conduit, flexible metal
24 conduit or electrical metallic tubing, provided that flexible
25 metal conduit shall be used only in concealed areas and provided
26 that other equal or superior installations may be authorized in
27 writing in advance by the Electrical Inspector. Residential
28 garages will be considered concealed if guard stripped or solid
29 backed.

30 (b) Rigid heavy wall metal conduit shall be
31 required for the following conditions:

32 1. All service entry raceways where exposed.

1 2. All underground installations except
2 approved P.V.C. or asbestos cement conduit may be used where
3 installed more than two feet below grade and provided a continuous
4 bond wire is installed.

5 3. All raceways exposed on the exterior of
6 a building or structure.

7 (c) Previously used material shall not be re-used
8 in any work without the written approval obtained in advance from
9 the Electrical Inspector.

10 SEC. 9-4.14. Alterations and additions.

11 Additions or extensions to and alterations and
12 renewal of existing installations shall be made in compliance
13 with this section.

14 (a) In locations where existing wiring was of
15 some other type of wiring approved at the time of installation,
16 the original type of installation may be used on work representing
17 less than 50% of an existing circuit.

18 (b) Complete circuits shall be a type required
19 by this chapter and shall be taken directly to the service panel.

20 (c) If the electrical system is altered or added
21 to, existing open fuse blocks shall be removed and replaced with
22 a panel complying with this chapter.

23 (d) Existing service equipment may be used to
24 supply increased demand when installed in compliance with this
25 Code.

26 (e) When the square footage of a building is
27 increased 50% or more, all wiring shall be made to conform to the
28 requirements of this Code.

29 (f) When it is necessary to relocate a service,
30 the service shall be installed in compliance with this Code.

31 (g) All buildings moved into or within this city
32 shall be made to comply with the electrical requirements of

1 this Code.

2 (h) When two or more existing wiring systems
3 are found interspliced in a building, they shall be replaced
4 with wiring complying with this chapter.

5 SEC. 9-4.15. Outside work.

6 (a) No open wiring requiring more than one (1)
7 set of knobs or insulators to each service shall be installed on
8 the outside of a building except as permitted elsewhere herein.
9 Knobs or insulators shall be of the solid type and nails or spikes
10 shall not be considered as adequate support for such knobs or
11 insulators.

12 (b) Electrically operated signs, affixed to
13 buildings, poles or other structures, shall be wired in conduit,
14 in a water-tight manner, by an electrical contractor.

15 (c) Festoon lighting, as for car lots, parking
16 lots and similar areas, must maintain four inch (4") spacing
17 between conductors, a twelve foot (12') minimum height and spans
18 over forty feet (40') must be supported by a messenger cable of
19 adequate strength and durability.

20 SEC. 9-4.16. Services.

21 (a) Two and three-wire services. All single-
22 phase lighting loads shall be served by a minimum of a three-wire
23 service. Where an installation has been wired and arranged for
24 three-wire service, no two-wire energy supply or two-wire service
25 shall be connected thereto without the written approval obtained
26 in advance from the Electrical Inspector. The length of a service
27 entry conduit shall not exceed 35 feet.

28 (b) Dwellings. Service heads for dwellings need
29 not be located on the wall nearest the pole from which service
30 drops are to be run, but shall be so located that the service drop
31 may be installed with only one point of attachment without crossing
32 over adjacent premises. The service head for dwellings shall

1 be not less than ten feet (10') above the ground and need not
2 be more than ten feet (10') over private driveways.

3 (c) Conductors in rigid metal raceways. No
4 other conductors shall be placed in the service raceway, box or
5 other fitting with the services wires unless separated therefrom
6 by an approved and permanent means forming a permanent compart-
7 ment. This shall not apply to the service switch box or to the
8 grounding conductor.

9 (d) Outdoor installations. Switches, panelboards,
10 equipment, etc. installed outdoors shall be of a type approved for
11 outdoor installation.

12 (e) Service disconnects.

13 1. Service disconnects shall be an approved
14 fused switch or a single circuit breaker.

15 2. Each meter shall have a service dis-
16 connect located at the meter or within one foot of the meter in
17 an accessible location.

18 3. Groups of meters in excess of six and
19 connected to the same set of service entrance conductors shall,
20 in addition to the required individual meter disconnect, have a
21 main service disconnect ahead of such meter groups.

22 4. Service disconnects shall be located not
23 more than six feet six inches (6'6") above the floor or ground
24 level measured to the operating handle in the "on" position.

25 5. Service disconnects ahead of meter groups
26 may be non-fused switches.

27 6. Service disconnects, where permitted
28 inside a building, shall be located in a space, readily accessible
29 and nearest the entry of the service conductors into the building.

30 (f) The weatherhead shall be so installed that the
31 shortest length of service drop wires may be obtained consistent
32 with proper clearances from structural openings, walkways,

1 driveways and other structures. These clearance rulings are
2 outlined in the utility company's manual.

3 (g) Service drop wires. Only one set of service
4 drop wires for a single phase and three-phase system shall be per-
5 mitted for a property unless otherwise authorized in writing by
6 the Electrical Inspector.

7 Where separate buildings exist or are to be
8 constructed on a building site, the service entry and meters shall
9 be grouped on the building nearest the serving utility pole.
10 Feeder wires to the remaining buildings or structures shall be
11 run underground unless unusual conditions prevail and overhead
12 wiring is approved by the Electrical Inspector.

13 (h) Single family dwellings. Service equipment.
14 The minimum capacity of the service equipment for a single family
15 dwelling shall be as follows:

16 1. A service entry conduit not less than
17 1-1/4" in diameter of the rigid type.

18 2. The service entry conductors shall have
19 a minimum ampacity rating of 95.

20 3. The panel shall have a capacity of not
21 less than twelve (12) single-pole circuits protected by circuit
22 breakers, and a minimum 100 ampere main buss.

23 EXCEPTION: A single family dwelling
24 containing less than 800 square feet of floor area may be served
25 as provided for in paragraph (i) for a multi-family unit.

26 (i) Multi-family dwellings (including duplexes).

27 1. Service Equipment. The minimum capacity
28 of the service equipment for a multi-family dwelling shall be as
29 follows:

30 a. The service entry conduit shall be
31 not less than 1-1/2" in diameter of the rigid type.

32 b. The service entry conductors shall

1 have a minimum ampacity rating of 110.

2 2. Sub-panel and sub-feed requirements:

3 A service panel for each unit shall have
4 a capacity for six (6) single pole circuits and a 70 ampere main
5 buss as a minimum requirement, and shall be conveniently located
6 within the unit served. Conduit for the sub-feed conductors to
7 the individual units shall be not less than 1" in diameter. Sub-
8 feed conductors shall be of a size to serve the connected load,
9 but in no case shall be less than No. 8 A.W.G.

10 (j) Sub-feed wires to each unit of a multi-family
11 dwelling shall be in a separate conduit so that replacement may
12 be made without disturbing other groups of service wires.

13 (k) Metering equipment, service panels and
14 switches shall be plainly and indelibly marked as to unit served.

15 (l) Grounding and bonding.

16 1. The neutral service wire shall be without
17 splice to the ground block in either the main switch, service
18 panel or gutter.

19 2. An approved armored cable of proper size
20 is required as a minimum for grounding services for dwellings.
21 Approved and appropriate clamps shall be used to secure the
22 grounding cable or conduit to the cold water piping.

23 3. Ground clamps shall be installed in
24 accessible locations and not buried unless authorized by the
25 Electrical Inspector.

26 4. The system ground wire for all commercial
27 installations shall be carried in rigid conduit.

28 5. Grounding bushings are required at
29 service conduit entrance to panel (except where conduit terminates
30 in threaded hub) and at ground cable or conduit entrance to
31 service equipment. A No.8 wire shall be used as bonding jumper
32 wire.

1 6. Lock nuts, bushings, couplings, connectors
2 and set screws shall be firmly secured to assure positive bond
3 throughout the conduit system.

4 7. Grounding electrodes shall be installed
5 as provided in Article 250, Division H, Sec. 250-81 to 250-86 of
6 the National Electrical Code.

7 (NOTE: Install meters and metering equip-
8 ment as required by the serving utility.)

9 SEC. 9-4.17. Voltage drop.

10 Every system of wiring for light and heat installations
11 shall be so installed as not to exceed three percent (3%) drop
12 over all, and power installations not to exceed five percent (5%)
13 drop over all.

14 SEC. 9-4.18. Branch circuit requirements.

15 (a) Each single family dwelling and each occupancy
16 of a multi-family dwelling supplied with electric lighting shall
17 have at least one (1) fifteen ampere (15 amp.) and two (2) twenty
18 ampere (20 amp.) circuits.

19 (b) Fifteen ampere (15 amp.) circuits shall
20 supply general residential lighting circuits.

21 (c) Twenty ampere (20 amp.) circuits shall
22 supply general appliance receptacle circuits and convenience
23 receptacle circuits only. All outlets in such circuits shall be
24 provided with "U" grounding type receptacles. For occupancies
25 other than residential, each outlet on any receptacle circuit
26 shall be calculated as requiring 200 watts.

27 (d) Each single family dwelling and each occupancy
28 of a multi-family dwelling shall have installed therein an
29 individual food-waste grinder branch circuit. Said circuit shall
30 be supplied with a minimum No.12 A.W.G. wire and a 15 ampere
31 indicating type switch. Said switch shall be located in the wall
32 or adjacent to the sink or cabinet. Foodwaste grinder may be

1 connected with a minimum of No.16 A.W.G. three-wire SPT thermo-
2 plastic hard finish cord or equal and an approved grounding type
3 receptacle and cord grip cap must be used.

4 (e) Appliances such as foodgrinders, dishwashers,
5 washing machines, dryers, laundry tray locations, refrigerators,
6 freezers, air conditioners, and built-in heaters, or any fixed
7 appliance with motors larger than 1/4 h.p. shall be on a separate
8 branch circuit supplied by No.12 A.W.G. wire.

9 (f) General appliance circuits. In addition
10 to appliance circuits required by paragraph (e) above, there
11 shall be a minimum of two (2) twenty ampere (20 amp.) capacity
12 branch circuits installed for the small appliance load in kitchens.
13 The required number of kitchen receptacles (15A-125V) shall be
14 divided equally between these two circuits. A three-wire circuit
15 may be looped from receptacle to receptacle, provided outlet boxes
16 have sufficient room for number of conductors and outlets are
17 equally divided on ungrounded conductors. These kitchen circuits
18 may be extended to supply receptacles in pantry, dinette, break-
19 fast room and dining room, but shall not supply other receptacles.
20 Clock and fan outlets may be connected to lighting circuits.

21 (g) In dwelling occupancies, general appliance
22 branch circuits which supply outlets in any bath without a fixed
23 heating facility, laundry, pantry, kitchen, dining room and break-
24 fast room, shall not supply more than eight (8) outlets. Each
25 double receptacle outlet shall be rated as one outlet.

26 (h) Receptacle outlets, dwelling occupancies.
27 In every kitchen, dining room, breakfast room, living room, parlor,
28 library, den, sun room, recreation room and bedroom, receptacle
29 outlets shall be installed so that no point along the floor line
30 in any wall space is more than six feet, measured horizontally,
31 from an outlet in that space including any usable wall space two
32 feet wide or greater and the wall space occupied by sliding panels

1 in exterior walls. The receptacle outlets shall, insofar as
2 practicable, be spaced equal distances apart. Receptacle outlets
3 in the floor shall not be counted as part of the required number
4 of receptacle outlets unless located close to the wall. At least
5 one outlet shall be installed for the laundry. Outlets in other
6 sections of the dwelling for special appliances such as laundry
7 equipment, shall be placed within six feet of the appliance.
8 Guest rooms in hotels, motels and similar dwelling occupancies
9 shall have receptacles installed in compliance with the above.

10 (i) Lighting loads, other occupancies. For
11 minimum general lighting load requirements for occupancies other
12 than of the dwelling type, refer to Article 200, National
13 Electrical Code, 1975 Edition, and/or the Electrical Safety
14 Orders, State of California.

15 (j) Receptacle outlets, commercial or industrial
16 occupancies. In all commercial and industrial buildings conveni-
17 ence outlet circuits shall be provided and convenience outlets
18 installed and located so that there shall not be a distance
19 greater than twenty feet (20') from outlet to outlet on usable
20 wall space. Not to exceed eight (8) such outlets shall be
21 installed on any one circuit.

22 (k) Every livable room shall have provided and
23 installed the minimum outlets as required by this Code. At
24 least two (2) circuits shall be provided and installed to each
25 and every livable room.

26 (l) In dwellings and apartment houses the allowable
27 number of outlets on lighting circuits may not exceed fifteen
28 (15) and in no case shall the connected load exceed 1,000 watts
29 per lighting circuit.

30 The allowed number of outlets on convenience
31 circuits may not exceed twelve (12). Circuit breakers or approved
32 non-tamperable fuses shall be installed.

1 (m) Every room shall have one switched outlet for
2 lighting purposes and such switch shall be located at entryway
3 into room.

4 (n) Each entrance doorway (all occupancies)
5 providing access to premises from exterior shall be provided
6 with exterior illumination suitably located. The switch shall
7 be located by entryway.

8 SEC. 9-4.19. Wiring details and installation methods.

9 (a) Cutouts shall be installed in approved
10 cabinets, panel boards, etc., in such manner that no live parts
11 are exposed to accident at contact; provided, however, that this
12 shall not apply to cutouts installed on switchboards under
13 competent supervision.

14 (b) Outlet boxes and pull boxes shall be of such
15 size as to accommodate with ease all wires and devices installed
16 therein. Outlet boxes containing flush devices with a conduit
17 entering from the side shall not be less than four inches (4")
18 in width.

19 (c) In closets, the lighting outlet shall be
20 placed on the wall over the door, or may be located on the
21 ceiling, if operated by a wall switch, door switch or ceiling
22 pull switch. Drop cords shall not be installed in closets.

23 (d) Where two or more feeder or sub-feeder
24 switches are grouped, each switch shall be permanently marked,
25 indicating what it controls.

26 (e) Workmanship. Good workmanship is a prime
27 factor in the valuation of the electric installation.

28 (f) Wood joists and beams shall not be drilled
29 within two inches (2") of their edges nor in the center one-third
30 (1/3) of their span. Notching is not permitted unless unusual
31 circumstances require and member is strengthened in approved
32 manner.

1 (g) A maximum of four (4) ninety degree (90°)
2 bends is permissible in any conduit run between outlets.

3 1. All conduit ends shall be reamed to
4 remove edges.

5 2. Bends in conduit shall be made so that
6 conduit is not injured and so that the internal diameter of the
7 conduit will not be effectively reduced.

8 3. Where conduit passes through areas of
9 widely different temperatures, such supply for cold storage or
10 walk-in refrigerators, seals shall be installed so as to prevent
11 condensation within the conduit.

12 (h) Flexible conduit shall be secured by an
13 approved strap to the structure every four feet (4') in runs
14 and within twelve inches (12") of termination in outlet box and
15 within twelve inches (12") of each spliced coupling. Runs through
16 studding or joists need not be secured only where they emerge to
17 enter outlet box.

18 (i) Electric metallic tubing shall be strapped
19 within eighteen inches (18") of outlet box and within three feet
20 (3') of each coupling.

21 (j) Rigid metal conduit shall be strapped within
22 thirty-six inches (36") of outlet box and every ten feet (10') of
23 runs, except where the conduit enters a threaded hub or fitting.

24 (k) Outlet boxes, bar hangers, heater, fan and
25 flush metal cans of all types shall be secured to framework with
26 not less than 8D nails or equal. Screws of proper gauge and
27 length shall be used to mount panels, gutters, line switches,
28 meter sockets and similar equipment to solid backing unless
29 equipment is provided with nailing brackets.

30 1. Previously used materials may not be
31 installed without first obtaining approval from the Electrical
32 Inspector.

1 (1) Connection boxes shall be installed only in
2 accessible locations with a minimum vertical working clearance
3 of eighteen inches (18").

4 (m) Plaster rings are required for all fixture
5 outlet boxes.

6 SEC. 9-4.20. Flexible cord.

7 (a) Flexible cord shall be used in continuous
8 length, without splice or tap, not to exceed six feet (6') from
9 device being served to the attachment cap.

10 (b) Flexible cord shall not be used.

11 1. As a substitute for fixed wiring.

12 2. Through walls or ceilings.

13 3. Through doorways, windows, vents or
14 similar openings.

15 4. Where attached to building surfaces.

16 SEC. 9-4.21. Fixture details.

17 (a) Grounded locations. Each outlet for fixtures
18 located within reach, five feet (5') horizontally or eight feet
19 (8') vertically of conducting floors or other conducting objects
20 shall be controlled by wall switches.

21 (b) Drop cord. Drop cord, unless of an approved
22 portable type, shall be used only where it hangs free in the air,
23 shall not be used for the support of more than one socket with its
24 reflector equipment, and shall not be used for the support of
25 sockets fitted with enclosing globes or bowls.

26 SEC. 9-4.22. Heating and cooking appliances.

27 (a) General. Portable heating appliances shall
28 not be used on any circuits operating at more than 300 volts
29 between conductors. Heating appliances which have bare elements
30 or other bare current carrying parts exposed to accidental contact
31 shall not be used on any circuit operating at more than 150 volts
32 to ground.

1 (b) Any heating appliance in a dwelling, rated
2 at more than 1650 watts, shall be wired for not less than 220
3 volts. Where the voltage to ground exceeds 150 volts, the con-
4 ductors to such heating appliance shall be installed in a metal
5 protected system. If such heating appliance is portable, the
6 receptacle shall be of suitable capacity.

7 (c) Three-wire circuits. In dwellings and
8 apartment houses, two or more fixed air heating appliances, rates
9 at no less than 1650 watts each and operating at not less than
10 220 volts may be installed on a heavy duty branch heater circuit,
11 protected by a single set of overload protective devices provided
12 the total connected load does not exceed 35 amperes per conductor.
13 Heavy duty branch heater circuits may be two-wire, derived from
14 either a 110-220 volt single-phase source, or a 220 volt three-
15 phase 220 volt source. The tap from such circuit to the heating
16 appliance shall in no case be less than No.12 A.W.G. wire not
17 over eighteen inches (18") in length. All ungrounded conductors
18 shall be switched at each heating appliance. (A control thermo-
19 stat shall not be construed as a switch.) This subsection shall
20 not be construed to permit heaters for different apartments being
21 connected to the same circuit.

22 (d) Electric heaters installed in bathrooms shall
23 not be installed in a location where they can be reached by a
24 person in a bathtub or shower and shall be operated by a wall
25 switch at the same location as the light switch.

26 SEC. 9-4.23. Location of branch circuit protective
27 devices.

28 (a) Branch circuit protective devices shall be
29 installed in and for each occupancy or in a location which is
30 accessible to occupants at all times. Nothing contained in this
31 Code shall be deemed or construed to permit the installation of
32 any electrical device, outlet or circuit in any occupancy, the

1 control of or the protection of which is not accessible to the
2 occupant at all times.

3 (b) No part of any circuit shall supply electri-
4 cal energy to more than one (1) occupancy.

5 SEC. 9-4.24. Gaseous tube lights.

6 Each fluorescent fixture, mercury vapor fixture,
7 or high voltage gas tube light or sign shall be provided with a
8 fixed name plate, legible after installation, which shall
9 correctly state the manufacturer's name or trade-mark and the
10 voltage, amperage, total watts and power factor. No such equip-
11 ment shall be installed in which the power factor is less than
12 90%. All above listed equipment shall have an Underwriter's
13 Laboratories, Inc. label or other recognized testing laboratory
14 label.

15 SEC. 9-4.25. Record of permits and inspections.

16 Said Electrical Inspector shall keep complete
17 records of all permits issued and inspections made and other
18 official work performed under the provisions of this chapter.

19 SEC. 9-4.26. Appeals - Board of Building Appeals.

20 In the event that any person believes that un-
21 reasonable restrictions or unnecessary and extraordinary hard-
22 ship or damage will be imposed upon him by the enforcement of
23 any of the provisions of this chapter or by the application of
24 any of the standards hereby adopted or by the adoption or applica-
25 tion of any rules or regulations by the Director of Community
26 Development, or from any rulings or determinations of such
27 Director of Community Development, such person may appeal in
28 accordance with the procedures prescribed by Chapter 4 of
29 Title 1 of this Code. At the time fixed for such hearing or
30 at any later time to which such hearing may be adjourned, the
31 Council shall proceed to hear the testimony of the appellant and
32 of others in his behalf and of the Director of Community

1 Development and others in his behalf, and of competent persons
2 who may be present and desire to testify or who may be called by
3 the Council to give testimony at such hearing. Upon the conclu-
4 sion of said hearing, said Council shall by resolution declare
5 its findings and decision in the matter. If it finds that
6 unreasonable restrictions or unnecessary and extraordinary hard-
7 ship or damage will be imposed upon the appellant, then it may
8 grant an exception or variance from the application in whole or
9 in part of such provisions of this chapter or of such standards,
10 rules and regulations, ruling or determinations, or it may modify,
11 rescind or otherwise alter such standards, rules and regulations,
12 rulings or determinations, provided that in granting such an
13 exception or variance or in taking such other action as may deem
14 justified, it may do so only in the event that such action may be
15 taken in harmony with the general purposes and objectives of this
16 chapter to preserve the public health, safety and welfare. The
17 decision of the Council rendered after a hearing held in the
18 manner prescribed herein shall be final and conclusive.

19 SEC. 9-4.27. Penalties.

20 (a) Any person violating any of the provisions
21 of this chapter, or of the Electrical Code adopted thereby, shall
22 be guilty of a misdemeanor and upon conviction of any such
23 violation such person shall be punishable by a fine of not more
24 than \$500.00 or by imprisonment in the City Jail of the City of
25 Manhattan Beach, California, or in the County Jail of Los Angeles
26 County, California, as the committing magistrate may direct, for
27 a period of not to exceed six months or by both such fine and
28 imprisonment in the discretion of the Court.

29 (b) Every such person shall be deemed guilty of
30 a separate offense for each and every day during which, or during
31 any portion of which, any of the provisions of this Code are
32 violated by such person and shall be punishable therefore as

1 herein provided.

2 SEC. 9-4.28. Savings provisions.

3 If any section, subsection, sentence, clause,
4 phrase, or portion of this chapter is for any reason held to be
5 invalid or unconstitutional by the decision of any court of
6 competent jurisdiction, such decision shall not affect the
7 validity of the remaining portions of this chapter. The Council
8 of this City hereby declares that it would have adopted this
9 chapter and each section, subsection, sentence, clause, phrase
10 or portion thereof, irrespective of the fact that any one or
11 more sections, subsections, clauses, phrases or portions be
12 declared invalid or unconstitutional.

13 SECTION 3. This ordinance shall go into effect and
14 be in full force and operation from and after thirty days after
15 its final passage and adoption.

16 SECTION 4. The City Clerk shall certify to the passage
17 and adoption of this ordinance; shall enter the same in the book
18 of original ordinances of said City; shall make a minute of the
19 passage and adoption thereof in the records of the proceedings
20 of the City Council at which the same is passed and adopted;
21 and shall within fifteen days from the passage and adoption
22 thereof cause the same to be published once in the Manhattan
23 Beach News, a weekly newspaper of general circulation, published
24 and circulated within said City of Manhattan Beach and which is
25 hereby designated for that purpose.

26 PASSED, APPROVED and ADOPTED this 1st day of
27 February, 1977.

28 Ayes: Cashin, Nordeck, Sweeney, Switzer and Blumberg
29 Noes: None
30 Absent: None
31 Not Voting: None

32 ATTEST:

Jan B. McMullen
City Clerk

Stephen Blumberg
Mayor, City of Manhattan Beach,
California