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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Manhattan Beach Municipal Code is hereby repealed.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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SEC. 9-4.12. General construction requirements.

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

(b) Materials. All electrical materials, devices, appliances and equipment installed or used in the City of Manhattan Beach shall be in conformity with the provisions of this 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

Steph Blumberg  
Mayor, City of Manhattan Beach,  
California