

BILL NO. 85-60

Ordinance No. 3211

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3
4 AN ORDINANCE RELATING TO ADOPTION OF AN ELECTRICAL CODE; AMENDING
5 TITLE 16, CHAPTER 12, SECTION 10, OF THE MUNICIPAL CODE OF THE
6 CITY OF LAS VEGAS, NEVADA, 1983 EDITION, BY DELETING ALL REFEREN-
7 CES TO THE 1981 EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED
8 BY REFERENCE THEREIN AND ADOPTING BY REFERENCE, IN LIEU THEREOF,
9 THE 1984 EDITION OF THE NATIONAL ELECTRICAL CODE AS PART 1 OF
10 SAID CHAPTER; REPEALING IN ITS ENTIRETY THE EXISTING SUPPLEMENTAL
11 DOCUMENT, AND AMENDMENTS THERETO, ADOPTED BY REFERENCE THEREIN
AND ADOPTING BY REFERENCE, IN LIEU THEREOF, A NEW SUPPLEMENTAL
DOCUMENT, ENTITLED: "A SUPPLEMENTAL DOCUMENT AMENDING THE NATIONAL
ELECTRICAL CODE, 1984 EDITION" AS PART II OF SAID CHAPTER, WHICH
ADDS VARIOUS PROVISIONS TO THE NATIONAL ELECTRICAL CODE, 1984
EDITION; PROVIDING OTHER MATTERS PROPERLY RELATING THERETO;
REPEALING ALL ORDINANCES OR PARTS OF ORDINANCES IN CONFLICT
HEREWITH; AND PROVIDING PENALTIES FOR THE VIOLATION HEREOF.

12 Sponsored by: Summary: Adopts the 1984 National
13 Councilman Al Levy supplemental document providing
14 amendments thereof, deletions there-
15 from and additions thereto, as the
City's Electrical Code.

16 THE CITY COUNCIL OF THE CITY OF LAS VEGAS DOES ORDAIN
17 AS FOLLOWS:

18 SECTION 1: Title 16, Chapter 12, Section 10, of the
19 Municipal Code of the City of Las Vegas, Nevada, 1983 Edition,
20 is hereby amended to read as follows:

21 16.12.010: Those certain documents, three copies of which are
22 on file in the office of the City Clerk, and being
23 marked and designated as follows, are adopted by refer-
24 ence and made a part of this Code the same as if set
25 out herein in full:

26 (A) National Electrical Code, [1981,] 1984 Edition,
27 hereby designated as Part 1 of this Chapter; and

28 (B) A supplemental document deleting from and adding
29 to the National Electrical Code, [1981,] 1984 Edition,
30 hereby designated as Part 2 of this Chapter.

31 SECTION 2: If any section, subsection, subdivision,
32 paragraph, sentence, clause or phrase in this Ordinance or any

1 part thereof, is for any reason held to be unconstitutional or
2 invalid or ineffective by any court of competent jurisdiction,
3 such decision shall not affect the validity or effectiveness of
4 the remaining portions of this Ordinance or any part thereof.
5 The City Council of the City of Las Vegas hereby declares that
6 it would have passed each section, subsection, subdivision,
7 paragraph, sentence, clause or phrase thereof, irrespective of
8 the fact that any one or more sections, subsections, subdivisions,
9 paragraphs, sentences, clauses or phrases be declared unconstitu-
10 tional, invalid or ineffective.

11 SECTION 3: All ordinances or parts of ordinances,
12 sections, subsections, phrases, sentences, clauses or paragraphs
13 contained in the Municipal Code of the City of Las Vegas, Nevada,
14 1983 Edition, in conflict herewith are hereby repealed.

15 SECTION 4: Whenever in this ordinance any act is
16 prohibited or is made or declared to be unlawful or an offense
17 or a misdemeanor, or whenever in this ordinance the doing of any
18 act is required or the failure to do any act is made or declared
19 to be unlawful or an offense or a misdemeanor, the doing of any
20 such prohibited act or the failure to do any such required act
21 shall constitute a misdemeanor and upon conviction thereof, shall
22 be punished by a fine of not more than \$1,000.00 or by imprison-
23 ment for a term of not more than six months, or by any combination
24 of such fine and imprisonment. Any day of any violation of this
25 ordinance shall constitute a separate offense.

26 PASSED, ADOPTED and APPROVED this 2nd day of
27 January, 1986.

28 APPROVED:

29
30 BY William H. Briare
31 WILLIAM H. BRIARE, MAYOR

32 ATTEST:

Carol Ann Hawley
Carol Ann Hawley, City Clerk

[Handwritten initials]
1-3-86

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The above and foregoing ordinance was first proposed and read by title to the City Council on the 4th day of December, 1985, and referred to the following committee composed of Councilmen Levy and Lurie for recommendation; thereafter the said committee reported favorably on said ordinance on the 2nd day of January, 1986, which was a regular meeting of said City Council; that at said regular meeting, the proposed ordinance was read by title to the City Council as amended and adopted by the following vote:

VOTING "AYE" Councilmen: Bunker, Levy, Lurie, Nolen and Mayor Briare
VOTING "NAY" Councilmen: NONE
ABSENT: NONE

APPROVED:
William H. Briare
By WILLIAM H. BRIARE, MAYOR

ATTEST:
Carol Ann Hawley
Carol Ann Hawley, City Clerk

1 PART 2

2 A SUPPLEMENTAL DOCUMENT AMENDING THE NATIONAL
3 ELECTRICAL CODE, 1984 EDITION

4 Certain articles of the 1984 National Electrical Code
5 as proposed in Section 1(A) of the 1984 National Electrical Code
6 shall be deleted, modified, and amended as hereinafter provided:

7 SECTION 1: Chapter 1 of the National Electrical Code,
8 1984 Edition, is hereby amended by adding a new article designated
9 as Article 120, to read as follows:

10 ARTICLE 120 - ADMINISTRATION

11 I. DEFINITIONS AND ABBREVIATIONS

12 "BZA" Refers to the Board of Zoning Adjustment
13 "CC" Refers to the Las Vegas City Council
14 "CEB" Refers to the City Electrical Board
15 "DIRECTOR" Refers to the Director of the Department of
16 Building and Safety of the City of Las Vegas
17 "EC" Refers to Electrical Contractor
18 "ECQ" Refers to Electrician's Certificate of
19 Qualification
20 "EI" Refers to Electrical Inspector
21 "ME" Refers to Master Electrician - A person who has
22 been issued a certificate by the City of Las
23 Vegas signifying competence to install and
24 supervise the installation of electrical wires,
25 fixtures, appliances, apparatus raceways, or
26 conduits, or any part thereof, which utilize
27 electrical energy in any form and in connec-
28 tion with which electrical energy is used for
29 any purpose whatsoever.
30 "MNE" Refers to Master Neon Electrician - A person who
31 has been issued a certificate by the City of
32 Las Vegas signifying competence to lay out and

1 supervise electric and gas tube sign fabrica-
2 tion and erection.

3 "MT" Refers to Master Technician - A person who has
4 been issued a certificate by the City of Las
5 Vegas signifying competence to lay out and
6 supervise commercial sound, radio, television,
7 and low voltage control systems involving
8 transistors or electric tube.

9 "NBFU" Refers to the National Board of Fire Under-
10 writers.

11 "NEC" Refers to the National Electrical Code.

12 "NEMA" Refers to the National Electrical Manufac-
13 turers' Association.

14 "NFPA" Refers to the National Fire Protection Associa-
15 tion.

16 "OWNER" Refers to any person who holds stock certifi-
17 cates or has an ownership interest in an
18 electrical company, partnership, or corpora-
19 tion.

20 "QI" Refers to a qualified individual who has
21 successfully passed the Nevada State Contractors'
22 Examination for a C-2 Electrical Contractor's
23 License, issued after July 1, 1985.

24 "SEI" Refers to the Supervisor of electrical
25 inspections - An assistant to the Director of
26 Building and Safety of the City of Las Vegas,
27 Nevada.

28 "UBC" Refers to the Uniform Building Code, 198_
29 Edition.

30 "UL" Refers to the Underwriter's Laboratories, Inc.

31 "UNIT" Refers to one home, apartment, store, warehouse,
32 hall, auditorium, or each floor of a hotel.

1 II. ADMINISTRATION

2 There is hereby created the position of SEI who shall
3 be an employee of the Building and Safety Department under the
4 supervision of the Director. The person chosen to fill the office
5 of SEI shall be of good moral character; shall be possessed of
6 such executive ability as is requisite for the efficient perfor-
7 mance of his duties and shall have a thorough knowledge of the
8 standard material and methods used in the installation of electrical
9 wiring, devices, appliances, and equipment; shall have the knowledge
10 and ability to read, decipher, and understand electrical drawings,
11 specifications, and calculations; shall be well versed in approved
12 methods of electrical construction for safety of life and property,
13 the statutes of the State of Nevada relating to electrical work,
14 the rules and regulations issued under the authority of the
15 statutes, the National Electrical Code, NFPA No. 70, approved by
16 the American Standards Association, and the electrical provisions
17 of other installation and safety codes approved by the American
18 Standards Association.

19 III. DUTIES OF SEI OR HIS APPOINTED DEPUTIES

20 (A) It shall be the duty of the Supervisor of Electrical
21 Inspections and/or the EI to enforce the provisions of the
22 electrical ordinance and inspect the construction, installation,
23 and repairs of electric light or power wiring, fixtures, appli-
24 ances, and apparatus in or running to any building or structure
25 in Las Vegas and to require the correction of any violations
26 therein which are dangerous or likely to cause fire or are contrary
27 to this ordinance. The EI must require the immediate correction
28 of any violations which are actual hazards to life or property.
29 The SEI shall supervise the activities of the Electrical Inspectors
30 and insure that enforcement of the provisions of this Code are
31 being carried out in a consistent, uniform manner. The SEI shall
32 make and establish policies in order that prompt, efficient, and

1 uniform inspections are made throughout the City. It shall be
2 the duty of the SEI to arbitrate any differences between a per-
3 mittee and the Electrical Inspectors concerning Code interpretations
4 or matters of policy of the Electrical Inspection Division of the
5 Department of Building and Safety. Matters not successfully
6 resolved shall be submitted to the Director who may refer the
7 matter to the CEB for a recommendation. Any decision rendered by
8 the Director may be appealed to the CC for a final decision. Such
9 appeals shall be made in writing through the Director and must be
10 made within ten (10) days after any decision by the Director.

11 (B) It shall be unlawful for any person, firm, or
12 corporation to sell or offer to sell for use within the City of
13 Las Vegas any electrical wiring, fixtures, appliances, or apparatus
14 that does not conform to the requirements of this Code and the UL
15 or any other testing agency with equivalent standards. EXCEPTION:
16 Signs and billboards are covered in Title IV, Chapter 6 of the
17 Municipal Code of the City of Las Vegas. The SEI shall ascertain
18 that all electrical wiring, fixtures, appliances, and apparatus
19 for use, used, or installed within the City comply with the
20 requirements of this Code and the UL or any other testing agency
21 with equivalent standards.

22 1. When a routine inspection or a Fire Marshall
23 recommendation is made, the owner shall not be required to pay an
24 inspection fee, unless all or parts of said wiring, appliances or
25 equipment are condemned, or where such inspection is made upon
26 request of the owner or user of said wiring, fixtures, apparatus
27 or appliances; in which case, fees which are provided for permits
28 for the installation of new work shall be paid by the person
29 requesting the inspection.

30 2. It shall be the duty of the EI to inspect any and
31 all work for which permits have been issued as soon as practicable
32 after notice by the contractor that the work is ready for inspec-

1 tion. Inspection shall, when necessary, be made two or three times
2 during the progress of installation; first, when work is roughed
3 in and last, when work is completed. It shall be the duty of the
4 EI to indicate inspection of any work by a tag or label attached
5 to the service wires or a certificate issued to the person taking
6 out the permit. Such tag or permit shall state the date and loca-
7 tion and whether or not rough or final inspection has been made.
8 It shall be unlawful for any workman or any person to conceal any
9 electrical work until such first inspection tag has been placed.

10 3. It shall be unlawful for the SEI or any of his
11 assistants to engage in or have any financial interest in any
12 business selling, installing, or maintaining, electrical wiring,
13 devices, appliances, or equipment in the City of Las Vegas.

14 IV. CERTIFICATE

15 Upon application for inspection of any wiring, apparatus,
16 fixtures, or appliances as hereinafter provided, the EI shall,
17 after inspection and examination, issue a certificate showing the
18 result of such examination and any correction which need to be
19 made.

20 V. UNLAWFUL INSTALLATION

21 (A) If the EI shall find any part of any electric light
22 or power wiring, appliance, apparatus, or fixture in or upon any
23 building in the City of Las Vegas to have been installed without
24 a permit or installed in such a manner to constitute a hazard, the
25 SEI shall have the right and power to disconnect electrical service
26 and place a seal upon same, and shall at the same time give
27 written notice of such disconnection to the owner or occupant of
28 the building and the electrical power utility company. After the
29 wiring, fixtures, appliances or apparatus have been put in the
30 condition required by this Chapter, the seal so placed shall be
31 removed by order of the SEI. It shall be unlawful for any person
32 to use any current in or through such disconnected wiring,

1 appliance, apparatus, or fixture, or otherwise supply current to
2 such disconnected wiring, fixture, appliance, or apparatus, or
3 to remove, break, or deface any seal so placed.

4 (B) Whenever any building work is being done contrary
5 to the provisions of this Code, or contrary to a permit issued,
6 the Building Official may order work stopped by notice in writing
7 served on any persons engaged in the doing or causing such work
8 to be done, and any such person shall forthwith stop such work
9 until authorized by the Building Official, to proceed with the
10 work. Whenever any work has been stopped for reason above, a fee
11 of \$20.00 shall be paid to the City before any work pertaining to
12 the stop order can again commence. Any person who shall knowingly
13 proceed to do building work in violation of any stop order shall
14 be guilty of a misdemeanor.

15 VI. PERMITS

16 (A) 1. No alteration or addition may be made in
17 existing wiring, nor shall any wiring be installed or layed out
18 for any lights, power, or heating devices, or any apparatus which
19 generates, transmits, transforms, or utilizes any electricity,
20 including private telephone systems, nor shall any alteration be
21 made to a wiring system after final inspection without first
22 notifying the SEI and securing a permit therefor; provided, however,
23 that no such permit shall be required for service work or changeouts,
24 in single family dwellings only, of existing air conditioning/
25 heating units which have identical ampacity requirements. Applica-
26 tions for such permit shall describe the proposed work and shall be
27 made in writing by the person, firm or corporation which will do
28 the work. Each applicant shall state the work location by street
29 and house number, and the permit shall be valid only for that
30 location.

31 2. The issuance or granting of a permit or approval
32 of plans and specifications shall not be construed to be a permit

1 for, or an approval of, any violation of any of the provisions of
2 this code or of any other ordinance of the jurisdiction. No
3 permit presuming to give authority to violate or cancel the
4 provisions of this code shall be valid.

5 3. The issuance of a permit based upon plans, specifica-
6 tions and other data shall not prevent the building official from
7 thereafter requiring the correction of errors in said plans,
8 specifications and other data or from preventing building opera-
9 tions being carried on thereunder when in violation of this code
10 or any other ordinance of this jurisdiction.

11 4. Every permit issued by the building official under
12 the provisions of this code shall expire by limitation and become
13 null and void if the building or work authorized by such permit
14 is not commenced within 180 days from the date of such permit, or
15 if the building or work authorized by such permit is suspended or
16 abandoned at any time after the work is commenced for a period of
17 180 days. Before such work can be recommenced, a new permit
18 shall be first obtained so to do, and the fee therefor shall be
19 one-half the amount required for a new permit for such work,
20 provided no changes have been made or will be made in the original
21 plans and specifications for such work, and provided, further, that
22 such suspension or abandonment has not exceeded one year.

23 5. Any permittee holding an unexpired permit may apply
24 for an extension of time within which he may commence work under
25 that permit when he is unable to commence work within the time
26 required by this section for good and satisfactory reasons. The
27 building official may extend the time for action by the permittee
28 for a period not exceeding 180 days upon written request by the
29 permittee showing that circumstances beyond the control of the
30 permittee have prevented action from being taken. No permit shall
31 be extended more than once. In order to renew action on a permit
32 after expiration, the permittee shall pay a new full permit fee.

1 A permit shall not be required for minor work such as repairing
2 flush and snap switches, replacing fuses, changing lamp sockets
3 and receptacles and fixtures, taping bare joints, and repairing
4 drop cords. This section shall not apply to wires installed in
5 power houses and substations belonging to electric light and
6 telephone companies operating under franchises granted by the City
7 of Las Vegas.

8 (B) Each application for a permit to install electrical
9 wiring in single family dwellings and accessory buildings (sheds,
10 garages, etc.) must have attached thereto a drawing showing the
11 electrical layout, including the wiring apparatus complete with load
12 calculations, if requested. Each application for a permit to
13 install electrical wiring in commercial establishments (all other
14 than single family dwellings) shall have attached thereto drawings
15 showing in detail the proposed method of installation of the
16 wiring apparatus, complete with load calculations in accord-
17 ance with Article 215-5 and as stated herein. The SEI may waive
18 drawings for small, insignificant additions or structures.

19 (C) In order to secure a permit for the installation
20 of electrical wiring, fixtures, appliances or apparatus, written
21 application shall be made to the Department of Building and Safety
22 on blanks provided for the purpose of said permit, and the
23 applicant therefor shall pay in advance all fees provided for in
24 the Permit Fee Section.

25 (D) It is the responsibility of the prime contractor
26 to enforce this permit requirement with regard to all subcontrac-
27 tors performing electrical work under the contract. An entire
28 project may be stopped by the SEI if any electrical work has been
29 performed without a permit.

30 (E) For an electrical elevator there shall be permit
31 fee based on the horsepower of its motor or motors to cover the
32 inspection of the power wiring to and including the branch circuit

1 disconnect. Inspection beyond this point shall be by the appro-
2 priate governmental agency which shall furnish the Department
3 of Building and Safety a copy of the final acceptance of the
4 elevator prior to public use.

5 (F) Any person who shall commence any electrical work
6 for which a permit is required by this Chapter, without first
7 having obtained a permit therefor, shall, if subsequently per-
8 mitted to obtain a permit, pay double the regular permit fee.
9 This provision, however, shall not apply to emergency work when
10 it shall be provided to the satisfaction of the SEI that such
11 work was urgently necessary and that it was not practicable to
12 obtain a permit therefor before the commencement of the work.
13 In all such cases, a permit must be obtained as soon as practi-
14 cable and if there is an unreasonable delay in obtaining such
15 permit, a double fee shall be charged.

16 (G) 1. The Building Official may authorize the refunding
17 of any fee paid hereunder which was erroneously paid or collected.

18 2. The Building Official may authorize the refund-
19 ing of not more than 80 percent of the permit fee paid when no
20 work has been done under a permit issued in accordance with this
21 code.

22 3. The Building Official may authorize the refund-
23 ing of not more than 80 percent of the plan review fee paid when
24 an application for a permit for which a plan review fee has been
25 paid is withdrawn or cancelled before any plan reviewing is done.

26 4. The Building Official shall not authorize the
27 refunding of any fee paid except upon written application filed
28 by the original permittee not later than 180 days after the date
29 of fee payment.

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VII OWNER'S PERMIT

Any permit required by this Chapter may be issued to any person for work in a single family dwelling used exclusively for living purposes, including the usual accessory buildings and quarters in connection with such buildings, if:

(A) The person is the bona fide owner of the premises containing such dwelling, accessory buildings, and quarters;

(B) The same are occupied or designated to be occupied by said Owner.

VIII. ELECTRICAL PERMIT FEES

(A) An applicant for an electrical permit shall pay a fee based on the following table at the time of the permit's issuance:

Permit Issuance	\$ 10.00
Supplemental Fee	4.50
Appliance Charge	
Receptacle/Switch	.40
Light Fixture or Socket	.30
Each Outlet For:	
Dishwasher, Garbage Grinder, Trash Compactor, G.F.I., Clothes Washer, Dryer, Electric Range, Ovens, Smoke Detector, Special Purpose, Water Heater, Space Heater, Blast Coil Heater (Per K.W.), Mercury Lamp, Quartz Lamp, Sodium Lamp	.70
X-ray Unit	10.00
Area Lighting (First 3000 Watts)	8.00
Each Additional 1000 Watts	3.00
Motors (1/2 H.P. and over)	
Transformers, Welders, and Generators	
First H.P. for each unit	3.00
First KVA for each unit	3.00
Each Additional H.P. or KVA up to 50	.50
Each H.P. or KVA over 50	.35
Temporary Power or Pole	6.00
Electric Service (including first meter)	6.00
Up to 200 Amp	
400 Amp and 600 Amp	12.50
Over 600 Amp to 1200 Amp	25.00
Over 1200 Amp	50.00
Each Additional Meter Socket	.50
Sub Panel (each)	3.00
Swimming Pool (Residential)	20.00
Swimming Pool (Semi-Public)	30.00
Spas	8.00
Recreational Vehicles Spaces (each)	3.00
Busways-Trolley or Plug-in (each 100 feet)	3.00
All Miscellaneous Electric	
Permanent A/C Unit (Package Units)	3.00

1	Each Air Handler	\$ 1.00
	Low Voltage Installations	
2	Speaker Outlets (each)	.30
	Signal or Alarm Outlets (each)	.30
3	Amplifiers	2.00
	Control Panel	.50
4	TV Master System	.30
	Telephone or Computer Outlet	.30
5	Other Inspections and Fees	
	Inspection outside of normal business	25.00
6	hours	Per Hr.
		(minimum 3 hours)
7	Reinspection fee during normal business	
	hours assessed under provisions	30.00
8	of Table #-A of the U.B.C.	Per Hr.
	Inspection for which no fee is	30.00
9	specifically indicated	Per Hr.
	Additional plan review changes, additions,	30.00
10	or revisions to approved plans	Per Hr.
		(minimum 1 hour)
11		

12 (B) As an alternative to the payment of the permit fee
13 stated above, the Building Official may allow a permit fee which
14 is based upon UBC total valuation of the building. Whenever the
15 valuation of the building is used, it must be calculated for each
16 individual structure, and a permit must be obtained for each indiv-
17 idual structure.

18 (C) The determination of the building valuation for
19 purposes of this section shall be made by the Department of Build-
20 ing and Safety. The value to be used in computing the permit
21 fees and the plan review fees shall be the total value of all
22 construction work for which the permit is issued as well as all
23 finish work, painting, roofing, electrical, plumbing, heating,
24 air conditioning, elevators, fire extinguishing systems and any
25 other permanent equipment.

26 IX. RULES GOVERNING INSTALLATION

27 Except as otherwise provided, all electrical wiring,
28 installations or electrical fixtures, apparatus or appliances for
29 furnishing light, heat, and/or power introduced or placed in or
30 on any building or structure in the City of Las Vegas shall be
31 in conformity with the rules and requirements of the NEC and NFPA
32 and this Chapter. All fittings and material used in such installa-

1 tions must be sanctioned in the list of electrical fittings by
2 UL or other approved agencies or approved by SEI as meeting
3 equivalent standards.

4 X. NOTICE OF INSPECTION

5 Upon completion of the installation of any electrical
6 wiring, fixtures, appliances, or apparatus in or on any building,
7 it shall be the duty of the persons doing the work to notify the
8 EI who shall inspect the same within twenty-four (24) hours.
9 If the EI approves the work, he shall issue a certificate of final
10 electrical inspection which shall contain the date of such inspec-
11 tion and an outline of the result. It shall be unlawful for any
12 person to turn on or connect the current to an installation until
13 such certificate has been issued. It shall also be unlawful to
14 change, alter, or extend any electrical wiring, fixture, appliance
15 or apparatus in or on any building after the final electrical
16 inspection without notifying the EI and securing a permit therefor,
17 except for emergency repair work as noted above. When any part
18 of a wiring installation is to be concealed by a permanent place-
19 ment of parts of the building, the person performing the electrical
20 installation or the general contractor shall notify the Depart-
21 ment of Building and Safety at least twenty-four (24) hours prior
22 to such proposed concealment and such parts shall not be con-
23 cealed until they have been inspected and approved by the EI;
24 provided that on large installations where the concealment of
25 parts of the wiring proceed continuously the person installing
26 the wiring shall give the EI due notice as above specified and
27 inspections shall be made periodically during the progress of the
28 work. The EI shall have the authority to remove or require the
29 removal of any obstruction that prevents proper inspection of any
30 electrical equipment or installation.

31 XI. RIGHT OF ENTRY

32 Whenever necessary to make an inspection to enforce any

1 of the provisions of this Code, or whenever the Director or his
2 authorized representative have reasonable cause to believe that
3 there exists in any building or upon any premises any condition
4 which makes such building or premises unsafe as defined in
5 Section 302 of the Uniform Code for Abatement of Dangerous Build-
6 ings, the Director or his authorized representative may request
7 entry from the owner or other person having charge or control of
8 the building or premises. If such entry is refused, the Director
9 or his authorized representative shall have recourse to every
10 remedy provided by law to secure entry, including obtaining a
11 search warrant from the Las Vegas Municipal Court.

12 XII. RESPONSIBILITY FOR DAMAGES

13 Nothing in this ordinance shall be construed to relieve
14 or lessen the responsibility of any person owning, operating, or
15 installing any electrical wires, fixtures, appliances, apparatus,
16 or equipment for damages to persons or property resulting from
17 any defect therein, neither the City nor any employee thereof
18 shall be held liable for damages resulting from the failure to
19 inspect or the failure to discover any defect in any structure
20 required to be inspected by this ordinance.

21 XIII. CITY ELECTRICAL BOARD

22 (A) There is hereby created the CEB which shall consist
23 of eleven (11) members appointed by the CC as follows:

- 24 1. One (1) representative of an electric utility
25 company;
- 26 2. One (1) representative of a telephone utility
27 company;
- 28 3. Two (2) Master Electricians as representatives of
29 the electrical contractors;
- 30 4. One (1) Master Neon Technician as representative
31 of the Electric sign contractors;
- 32 5. One (1) Master Technician as representative of the

1 sound or signal system contractors;

2 6. One (1) Electrical Engineer registered in and for
3 the State of Nevada;

4 7. Two (2) Certified Electricians;

5 8. One (1) Layman; and

6 9. One (1) Low Voltage Technician.

7 The SEI or his representative shall act as Secretary,
8 provided that the SEI or his representative shall have no vote.

9 (B) It shall be the duty of the CEB to recommend to
10 the Director the suspension or revocation of certificates upon
11 good and sufficient cause. The Director will then advise the CC
12 of his recommendations with respect to such suspension or revoca-
13 tion. The CEB will also act as a consultant for the SEI and take
14 such action as it may find to be necessary or desirable in order
15 to carry out the provisions of this Code.

16 (C) The SEI, as Secretary to the CEB, shall keep the
17 records of all meetings, which records shall be open for inspection
18 during normal City business hours. He shall also keep a record
19 of all certificates issued.

20 (D) The presence of six (6) members of the CEB at any
21 meeting shall constitute a quorum for recommending disciplinary
22 action against any certificate holder and for the transaction of
23 other business, and a majority vote of such quorum shall prevail.

24 (E) It shall be the responsibility of every contractor
25 and its ME and QI to inform the SEI in writing of any change of
26 the employment status of the ME or the QI within ten (10) days
27 after that change is effective.

28 (F) A Master Certificate shall be valid for one
29 business only. Simultaneous use of such certificate for more
30 than one contractor shall result in the revocation of such
31 certificate. Notwithstanding anything above to the contrary, an
32 owner who holds a Master Certificate may be the ME for his own

1 business.

2 (G) The fees, examination, certification and renewal
3 requirements and procedures which are outlined above shall apply
4 equally to MES, MNEs and MTs.

5 (H) The SEI or his deputy shall examine applicants for
6 Electrician's Certificate of Qualification (ECQ) by a written
7 examination and grade the same. A fee of \$10.00 shall be charged
8 for this examination and a grade of 70% thereon shall entitle the
9 examinee to an Electrician's Certificate of Competency. If the
10 examination is failed, the applicant must wait at least thirty
11 (30) days to retake the examination and shall pay a new fee of
12 \$10.00. Every Electrician's Certificate shall remain in effect
13 for a period of one year. A ten dollar (\$10.00) fee shall be
14 charged for the renewal of the certificate. Electrician's Certifi-
15 cates may be revoked after a hearing by the CEB for cause (incompe-
16 tency or willful violation of this Code.)

17 XIV. LICENSING

18 (A) Any person engaged in the business of wiring,
19 building, or installing electrical equipment or appliances,
20 including private telephone systems, in the City of Las Vegas,
21 Nevada, shall first secure a business license from the Director
22 of the Department of Business Activity. Said license must be
23 kept valid as long as the applicant is engaged in electrical work.
24 Before applying for a business license, the applicant shall first
25 obtain a contractors' license from the Nevada State Contractors'
26 Board for those areas of electrical work for which a contractors'
27 license is required by Chapter 624 of the Nevada Revised Statutes,
28 and the applicant or one of his employees must possess a ME's
29 certificate or a QI's certificate which has been issued by said
30 Contractors' Board after July 1, 1985. In doubtful cases where it
31 is unclear whether or not a State Contractors' license is necessary
32 to do the electrical work contemplated, the City may require the

1 applicant to furnish written proof from the said Contractors' Board
2 that a State license is not necessary. Each applicant shall furnish
3 a bond as required by the City's licensing ordinance which is
4 administered by the Department of Business Activity. Before apply-
5 ing for a business license to install electrified signs in the City
6 of Las Vegas, the applicant shall have in his possession a valid
7 electric sign contractors' license which has been issued said
8 Contractors' Board in instances, in which such license is required
9 by State law, and shall either possess himself or have someone in
10 his employ who possesses a valid MNE's certificate or a valid QI's
11 certificate which has been issued by said Contractors' Board after
12 July 1, 1985. Before applying a business license to do low voltage
13 electrical work in the City of Las Vegas, the applicant shall
14 have in his possession a valid contractors' license for low
15 voltage systems which has been issued by said Contractors' Board,
16 in instances in which such license is required by State law, and
17 shall either possess himself or have someone in his employ who
18 possesses a valid MT's certificate or a valid QI's certificate
19 which has been issued by said Contractors' Board after July 1,
20 1985. It shall be the responsibility of every electrical con-
21 tractor to assure that each of its employees who works at the
22 trade of installing electrical wiring systems possesses a valid
23 electrician's certificate which has been issued by an approved
24 agency. Each and every person who works at the trade of installing
25 electric wiring and devices shall possess a valid electrician's
26 certificate of qualification.

27 XV. REVOCATION OF CERTIFICATE

28 Upon presentation to the CEB of charges that the holder
29 of any certificate has violated any provisions of the City Code
30 or this ordinance regulating electrical installations and permits
31 for the use of electricity, or is incompetent or unfit to comply
32 with such regulations, the CEB may hold a hearing to determine

1 whether or not a recommendation should be made to the Director to
2 suspend or revoke the certificate or to take other disciplinary
3 action. All such recommendations must be filed with the Director,
4 who will then advise the CC of his recommendations with respect to
5 such suspension, revocation or other disciplinary action. The
6 holder of the certificate in question shall be given notice of the
7 allegations against him and the opportunity to appear at the
8 hearing to refute said charges. If, after such hearing, the CEB
9 votes to recommend the suspension or revocation of the certificate
10 or to take any other disciplinary action against the holder there-
11 of, the holder shall be notified in writing by the Director that
12 such a recommendation has been made and that unless he can show
13 good and sufficient cause to the CC why the certificate should
14 not be suspended or revoked or such other disciplinary action
15 should not be taken against him, the CC may order the Director to
16 suspend or revoke the certificate or to take such other disciplin-
17 ary action against the holder thereof. This notification shall be
18 delivered to the holder of the certificate at least ten (10) days
19 in advance of the intended action before the CC. When a cer-
20 tificate has been so revoked, a new certificate shall not be
21 granted to the same person to perform electrical work within the
22 corporate boundaries of the City until such person has waited at
23 least one year and the CEB has determined that such person is
24 competent and meets all of the requirements of this Code. The CC
25 can, at any time on its own motion after notice and hearing and
26 for good and proper cause, revoke or suspend any certificate or
27 take other disciplinary action against the holder thereof.

28 SECTION 2: Article 220-2 of the National Electrical
29 Code, 1984 Edition, is hereby amended by adding a new paragraph,
30 designated as paragraph (E), reading as follows:

31 (E) Limitations.

32 (1) No more than twelve (12) receptacles of the

1 duplex convenience type may be installed on any 20A circuit,
2 except on small appliance circuits where there shall be only four
3 (4) receptacles. No more than ten (10) receptacles may be in-
4 stalled on any 15A circuit. A 120 volt receptacle shall be located
5 within 25' of mechanical equipment. (See Section 509, Uniform
6 Mechanical Code).

7 (2) Fixed appliance circuits. Each appliance
8 (washer, dishwasher, gas dryer, cooler, oven, tabletop cooking
9 units, etc.) shall be supplied by a separate circuit. Each fixed
10 electrical wall heater at one hundred and twenty (120) volts or
11 more shall be supplied by a separate 20 amp branch circuit. All
12 storage type water heater circuits shall be wired with #10 Cu.
13 minimum.

14 (3) Smoke detector devices or apparatus, where
15 required, shall be directly connected as required under Section
16 1210 (A) of the Uniform Building Code.

17 (4) Subpanels shall not be installed in clothes
18 closets or bathrooms. EXCEPTION: A walk-in clothes closet where
19 clearance is provided. (See 240-24D).

20 SECTION 3: Sections 220-30 to 220-33, inclusive, of
21 Article 220 of the National Electrical Code, 1984 Edition, are
22 hereby repealed in their entirety.

23 SECTION 4: Section 230-70(a) of Article 230 of the
24 National Electrical Code, 1984 Edition, is hereby repealed in
25 its entirety and a new paragraph (a) adopted in lieu thereof
26 reading as follows:

27 (a) All services shall have a means of disconnect
28 located on the outside of the building or structure. Where more
29 than one service to a building or other structure is permitted, a
30 permanent graphic display plaque shall be installed at each
31 service location denoting all other services on or in that build-
32 ing or structure and the area served by each. The service dis-

1 connecting means and the graphic display plaque shall meet the
2 requirements of the building official.

3 All residential underground service conduit risers
4 shall be a minimum two inch (2") stubout. (All ungrounded service
5 entrance-conductors and service laterals shall have equal ampacity.)
6 A shunt trip device shall be acceptable as a main electrical
7 disconnect for a building. The circuit supplying the shunt trip
8 shall be wired from the line side of the service. It shall be
9 painted yellow and identified in black letters as the electrical
10 disconnect for the structure.

11 SECTION 5: Article 250 of the National Electrical Code,
12 1984 Edition, is hereby amended to add thereto the following
13 language:

14 GROUNDING AND BONDING

15 The grounding electrode system for buildings shall
16 include, in addition to one other ground electrode, an electrode
17 shall be placed which shall be encased by at least two inches
18 (2") of concrete, located within and near the bottom of concrete
19 foundation or footing that is in direct contact with earth,
20 consisting of at least twenty feet (20') of one or more steel
21 reinforcing bars or rods of not less than one-half inch (1/2")
22 diameter, or consisting of at least twenty feet (20') of bare
23 solid copper conductor not smaller than No. 4 AWG. Connections
24 to electrodes of steel reinforcing bars or rods, where the ground
25 electrode conductor is larger than No. 2 AWG, shall be by welding,
26 brazing or similar processes or as approved by the Building
27 Official or his designated representative. A grounding electrode
28 conductor shall not be permitted to be installed on the utility
29 side of any service equipment.

30 SECTION 6: Article 300 of the National Electrical Code,
31 1984 Edition, is hereby amended to add a new section, designated
32 as Section 300-23, reading as follows:

1 Old or used materials shall not be used in any work
2 without the permission of the Director of Building and Safety,
3 obtained in advance. Abandoned wiring shall be removed back to
4 its source of supply.

5 SECTION 7: Section 310-2(b) of Article 310 of the
6 National Electrical Code, 1984 Edition, is hereby amended by
7 adding the following sentence:

8 Aluminum and copper clad conductors smaller than #6 AWG
9 shall not be used.

10 SECTION 8: Section 336-3 of Article 336 of the National
11 Electrical Code, 1984 Edition, is hereby amended by adding a new
12 paragraph, designated as paragraph (d), reading as follows:

13 (d) NM or NMC non-metallic sheathed cable shall not be
14 used in the following areas:

15 (1) Shall not be permitted in any structure used for
16 commercial purposes except apartment house as defined in the
17 Uniform Building Code which are rented on a monthly basis.

18 (2) All non-metallic sheathed cables and metal raceways
19 shall terminate in an approved metal box, cabinet, cutout box,
20 pullbox, switch box, gutter or switchboard, or equal, as approved
21 by the governing authority. Type NMC cables shall be a permitted
22 use in one- and two-family dwellings and multi-family dwellings
23 with individual metering not exceeding three stories.

24 (3) Wiring which is installed in recreation buildings,
25 swimming pool equipment rooms and detached laundry buildings shall
26 be installed in metallic raceways.

27 SECTION 9: Article 346 of the National Electrical Code,
28 1984 Edition, is hereby amended by adding a new section designated,
29 as 346-16, reading as follows:

30 346-16: Metallic raceways: When installed on ground
31 or in earthfill, galvanized rigid metal conduit or IMC shall have
32 an approved extruded PVC jacket or equal protection as approved

1 by the enforcing authority including all fittings, and shall be
2 installed in a manner that will not change the extruded jacket.

3 SECTION 10: Section 347-2(g) of Article 347 of the
4 National Electrical Code, 1984 Edition, is hereby amended by adding
5 thereto the following language:

6 This section shall not be construed as prohibiting
7 the use of non-metallic raceways. PVC may transit from a slab
8 into a protected area, but not be used in buildings of noncom-
9 bustible construction as defined by the UBC. Where PVC transits
10 from underground unprotected, it shall be Schedule 80.

11 SECTION 11: Article 348 of the National Electrical
12 Code, 1984 Edition, is hereby amended by adding thereto a new
13 section, designated as 348-16, reading as follows:

14 348-16: Metallic Tubing. Electrical metallic tubing
15 may be used for both concealed and exposed work except in the
16 following places:

- 17 1. Slabs in contact with earth;
- 18 2. Underground;
- 19 3. In earthfills; or
- 20 4. In location subject to mechanical damage.

21 SECTION 12: Section 350-5 of Article 350 of the
22 National Electrical Code, 1984 Edition, is hereby repealed in
23 its entirety and a new section adopted in lieu thereof, reading
24 as follows:

25 All flexible conduit in any length shall contain a
26 grounding conductor. Grounding conductors, where permitted to
27 be spliced, shall require a mechanical device.

28 SECTION 13: Section 410-8(a) of Article 410 of the
29 National Electrical Code, 1984 Edition, is hereby amended by
30 adding a new provision, designated as subsection (3), reading
31 as follows:

32 (3) Closet lighting: Any walk-in closet of twenty

1 square feet (20 sq. ft.) or more in floor area shall have a light
2 fixture and wall switch.

3 SECTION 14: Article 550-3(a) of the National Electrical
4 Code, 1984 Edition, is hereby amended by adding thereto the
5 following language:

6 Electrical service to all mobile home parks and to all
7 spaces, etc., in mobile home parks shall be provided by a fran-
8 chised serving utility unless approved by the authority having
9 jurisdiction.

10 SECTION 15: Section 680-8 of Article 680 of the
11 National Electrical Code, 1984 Edition, is hereby amended to add
12 thereto the following language:

13 The distances required under Item A may be waived when-
14 ever the direct line of sight between the edge of the pool's
15 water surface and the existing utility-owned, utility-operated
16 and utility-maintained supply lines or service-drops is broken by
17 a permanent structure which breaks the line of sight and causes
18 a deviation such that the resulting unobstructed path satisfies
19 the distance requirement of Item A.

20 SECTION 16: Section 700-6 of Article 700 of the
21 National Electrical Code, 1984 Edition, is hereby amended to add
22 thereto the following language:

23 In any building or structure in which an emergency
24 generator is installed, the emergency panel and any automatic
25 transfer switches shall not be permitted in the same enclosure or
26 room with the normal power switchgear.

27 SECTION 17: Article 700 of the National Electrical
28 Code, 1984 Edition, is hereby amended by adding thereto a new
29 section, designated as 700-10, reading as follows:

30 Where an emergency generator is installed for the pro-
31 tection of life safety, the following systems, if required by the
32 Uniform Building Code (1982 edition), A.N.S.I. Code or N.F.P.A.

1 1983, shall be installed using mineral insulated cable or protected
2 by a separate 1 hour enclosure which shall contain only the
3 emergency or legally required stand-by system wiring which is
4 listed below:

5 A. Emergency system wiring to the overcurrent device
6 protecting the branch circuits.

7 B. Feeder wiring to fire alarm master panel and
8 feeder wiring to voice control and communication panels.

9 C. Elevator feeder and control wiring to motors.

10 D. Mechanical smoke removal system.

11 EXCEPTION: Feeder conductors located outside of a building or
12 structure or underground shall be considered protected in com-
13 pliance with Articles 700 and 701.

14 SECTION 18: Article 700 of the National Electrical
15 Code, 1984 Edition, is hereby amended by adding thereto a new
16 section, designated as 700-11, reading as follows:

17 ELEVATORS - Where loss of normal power occurs an
18 emergency condition shall exist and all elevators shall sequence
19 to the designated level and doors shall open and remain open.
20 A three position key located in the lobby shall activate the
21 elevators. Where elevators must comply with A 17-1-Rule 211.3
22 an emergency generator shall be required in order to meet the
23 Rule 211.3 A and B.

24 SECTION 19: Article 725 of the National Electrical
25 Code, 1984 Edition, is hereby amended by adding a new section,
26 designated as 725-6, reading as follows:

27 725-6: UL Raceways for Class 1, Class 2 and Class 3
28 circuits. All Class 1 circuits low voltage wiring shall be in
29 metallic raceways (conduits) except where NM or NMC wiring is
30 permitted.

31 (a) All life safety wiring systems or low voltage
32 wiring systems in concealed spaces shall be in metallic conduit.

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(b) Fire protection systems, sound systems, burglar alarms, industrial process systems, closed circuit t.v. systems, shall be installed in UL metallic raceways except where NM or NMC wiring system is used.

(c) Fire alarm systems wherein special cable must run exposed as it shall act as a thermostat to sound the signal and it is further arranged to sound a trouble signal in the event of breakage in the wire, shall not be required to be in conduit.

(d) Wiring for industrial processes or burglar alarm systems need not be in conduit when it is impractical to attach to detection devices in other than concealed spaces or outside the building.

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BILL NO. 85-60

Ordinance No. _____

AN ORDINANCE RELATING TO ADOPTION OF AN ELECTRICAL CODE; AMENDING TITLE 16, CHAPTER 12, SECTION 10, OF THE MUNICIPAL CODE OF THE CITY OF LAS VEGAS, NEVADA, 1983 EDITION, BY DELETING ALL REFERENCES TO THE 1981 EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED BY REFERENCE THEREIN AND ADOPTING BY REFERENCE, IN LIEU THEREOF, THE 1984 EDITION OF THE NATIONAL ELECTRICAL CODE AS PART 1 OF SAID CHAPTER; REPEALING IN ITS ENTIRETY THE EXISTING SUPPLEMENTAL DOCUMENT, AND AMENDMENTS THERETO, ADOPTED BY REFERENCE THEREIN AND ADOPTING BY REFERENCE, IN LIEU THEREOF, A NEW SUPPLEMENTAL DOCUMENT, ENTITLED: "A SUPPLEMENTAL DOCUMENT AMENDING THE NATIONAL ELECTRICAL CODE, 1984 EDITION" AS PART II OF SAID CHAPTER, WHICH ADDS VARIOUS PROVISIONS TO THE NATIONAL ELECTRICAL CODE, 1984 EDITION; PROVIDING OTHER MATTERS PROPERLY RELATING THERETO; REPEALING ALL ORDINANCES OR PARTS OF ORDINANCES IN CONFLICT HEREWITH; AND PROVIDING PENALTIES FOR THE VIOLATION HEREOF.

Sponsored by:

Councilman Al Levy

Summary: Adopts the 1984 National Electrical Code, together with a supplemental document providing amendments thereof, deletions therefrom and additions thereto, as the City's Electrical Code.

THE CITY COUNCIL OF THE CITY OF LAS VEGAS DOES ORDAIN AS FOLLOWS:

SECTION 1: Title 16, Chapter 12, Section 10, of the Municipal Code of the City of Las Vegas, Nevada, 1983 Edition, is hereby amended to read as follows:

16.12.010: Those certain documents, three copies of which are on file in the office of the City Clerk, and being marked and designated as follows, are adopted by reference and made a part of this Code the same as if set out herein in full:

(A) National Electrical Code, [1981,] 1984 Edition, hereby designated as Part 1 of this Chapter; and

(B) A supplemental document deleting from and adding to the National Electrical Code, [1981,] 1984 Edition, hereby designated as Part 2 of this Chapter.

SECTION 2: If any section, subsection, subdivision, paragraph, sentence, clause or phrase in this Ordinance or any

1 part thereof, is for any reason held to be unconstitutional or
2 invalid or ineffective by any court of competent jurisdiction,
3 such decision shall not affect the validity or effectiveness of
4 the remaining portions of this Ordinance or any part thereof.
5 The City Council of the City of Las Vegas hereby declares that
6 it would have passed each section, subsection, subdivision,
7 paragraph, sentence, clause or phrase thereof, irrespective of
8 the fact that any one or more sections, subsections, subdivisions,
9 paragraphs, sentences, clauses or phrases be declared unconstitu-
10 tional, invalid or ineffective.

11 SECTION 3: All ordinances or parts of ordinances,
12 sections, subsections, phrases, sentences, clauses or paragraphs
13 contained in the Municipal Code of the City of Las Vegas, Nevada,
14 1983 Edition, in conflict herewith are hereby repealed.

15 SECTION 4: Whenever in this ordinance any act is
16 prohibited or is made or declared to be unlawful or an offense
17 or a misdemeanor, or whenever in this ordinance the doing of any
18 act is required or the failure to do any act is made or declared
19 to be unlawful or an offense or a misdemeanor, the doing of any
20 such prohibited act or the failure to do any such required act
21 shall constitute a misdemeanor and upon conviction thereof, shall
22 be punished by a fine of not more than \$1,000.00 or by imprison-
23 ment for a term of not more than six months, or by any combination
24 of such fine and imprisonment. Any day of any violation of this
25 ordinance shall constitute a separate offense.

26 PASSED, ADOPTED and APPROVED this _____ day of
27 _____, 1985.

28 APPROVED:

29
30 By _____
31 WILLIAM H. BRIARE, MAYOR

32 ATTEST:

Carol Ann Hawley, City Clerk

1 PART 2

2 A SUPPLEMENTAL DOCUMENT AMENDING THE NATIONAL
3 ELECTRICAL CODE, 1984 EDITION

4 Certain articles of the 1984 National Electrical Code
5 as proposed in Section 1(A) of the 1984 National Electrical Code
6 shall be deleted, modified, and amended as hereinafter provided:

7 SECTION 1: Chapter 1 of the National Electrical Code,
8 1984 Edition, is hereby amended by adding a new article designated
9 as Article 120, to read as follows:

10 ARTICLE 120 - ADMINISTRATION

11 I. DEFINITIONS AND ABBREVIATIONS

12 "BZA" Refers to the Board of Zoning Adjustment
13 "CC" Refers to the Las Vegas City Council
14 "CEB" Refers to the City Electrical Board
15 "DIRECTOR" Refers to the Director of the Department of
16 Building and Safety of the City of Las Vegas
17 "EC" Refers to Electrical Contractor
18 "ECQ" Refers to Electrician's Certificate of
19 Qualification
20 "EI" Refers to Electrical Inspector
21 "ME" Refers to Master Electrician - A person who has
22 been issued a certificate by the City of Las
23 Vegas signifying competence to install and
24 supervise the installation of electrical wires,
25 fixtures, appliances, apparatus raceways, or
26 conduits, or any part thereof, which utilize
27 electrical energy in any form and in connec-
28 tion with which electrical energy is used for
29 any purpose whatsoever.
30 "MNE" Refers to Master Neon Electrician - A person who
31 has been issued a certificate by the City of
32 Las Vegas signifying competence to lay out and

1 supervise electric and gas tube sign fabrica-
2 tion and erection.

3 "MT" Refers to Master Technician - A person who has
4 been issued a certificate by the City of Las
5 Vegas signifying competence to lay out and
6 supervise commercial sound, radio, television,
7 and low voltage control systems involving
8 transistors or electric tube.

9 "NBFU" Refers to the National Board of Fire Under-
10 writers.

11 "NEC" Refers to the National Electrical Code.

12 "NEMA" Refers to the National Electrical Manufac-
13 turers' Association.

14 "NFPA" Refers to the National Fire Protection Associa-
15 tion.

16 "OWNER" Refers to any person who holds stock certifi-
17 cates or has an ownership interest in an
18 electrical company, partnership, or corpora-
19 tion.

20 "QI" Refers to a qualified individual who has
21 successfully passed the Nevada State Contractors'
22 Examination for a C-2 Electrical Contractor's
23 License, issued after July 1, 1985.

24 "SEI" Refers to the Supervisor of electrical
25 inspections - An assistant to the Director of
26 Building and Safety of the City of Las Vegas,
27 Nevada.

28 "UBC" Refers to the Uniform Building Code, 198_
29 Edition.

30 "UL" Refers to the Underwriter's Laboratories, Inc.

31 "UNIT" Refers to one home, apartment, store, warehouse,
32 hall, auditorium, or each floor of a hotel.

1 II. ADMINISTRATION

2 There is hereby created the position of SEI who shall
3 be an employee of the Building and Safety Department under the
4 supervision of the Director. The person chosen to fill the office
5 of SEI shall be of good moral character; shall be possessed of
6 such executive ability as is requisite for the efficient perfor-
7 mance of his duties and shall have a thorough knowledge of the
8 standard material and methods used in the installation of electrical
9 wiring, devices, appliances, and equipment; shall have the knowledge
10 and ability to read, decipher, and understand electrical drawings,
11 specifications, and calculations; shall be well versed in approved
12 methods of electrical construction for safety of life and property,
13 the statutes of the State of Nevada relating to electrical work,
14 the rules and regulations issued under the authority of the
15 statutes, the National Electrical Code, NFPA No. 70, approved by
16 the American Standards Association, and the electrical provisions
17 of other installation and safety codes approved by the American
18 Standards Association.

19 III. DUTIES OF SEI OR HIS APPOINTED DEPUTIES.

20 (A) It shall be the duty of the Supervisor of Electrical
21 Inspections and/or the EI to enforce the provisions of the
22 electrical ordinance and inspect the construction, installation,
23 and repairs of electric light or power wiring, fixtures, appli-
24 ances, and apparatus in or running to any building or structure
25 in Las Vegas and to require the correction of any violations
26 therein which are dangerous or likely to cause fire or are contrary
27 to this ordinance. The EI must require the immediate correction
28 of any violations which are actual hazards to life or property.
29 The SEI shall supervise the activities of the Electrical Inspectors
30 and insure that enforcement of the provisions of this Code are
31 being carried out in a consistent, uniform manner. The SEI shall
32 make and establish policies in order that prompt, efficient, and

1 uniform inspections are made throughout the City. It shall be
2 the duty of the SEI to arbitrate any differences between a per-
3 mittee and the Electrical Inspectors concerning Code interpretations
4 or matters of policy of the Electrical Inspection Division of the
5 Department of Building and Safety. Matters not successfully
6 resolved shall be submitted to the Director who may refer the
7 matter to the CEB for a recommendation. Any decision rendered by
8 the Director may be appealed to the CC for a final decision. Such
9 appeals shall be made in writing through the Director and must be
10 made within ten (10) days after any decision by the Director.

11 (B) It shall be unlawful for any person, firm, or
12 corporation to sell or offer to sell for use within the City of
13 Las Vegas any electrical wiring, fixtures, appliances, or apparatus
14 that does not conform to the requirements of this Code and the UL
15 or any other testing agency with equivalent standards. EXCEPTION:
16 Signs and billboards are covered in Title IV, Chapter 6 of the
17 Municipal Code of the City of Las Vegas. The SEI shall ascertain
18 that all electrical wiring, fixtures, appliances, and apparatus
19 for use, used, or installed within the City comply with the
20 requirements of this Code and the UL or any other testing agency
21 with equivalent standards.

22 1. When a routine inspection or a Fire Marshall
23 recommendation is made, the owner shall not be required to pay an
24 inspection fee, unless all or parts of said wiring, appliances or
25 equipment are condemned, or where such inspection is made upon
26 request of the owner or user of said wiring, fixtures, apparatus
27 or appliances; in which case, fees which are provided for permits
28 for the installation of new work shall be paid by the person
29 requesting the inspection.

30 2. It shall be the duty of the EI to inspect any and
31 all work for which permits have been issued as soon as practicable
32 after notice by the contractor that the work is ready for inspec-

1 tion. Inspection shall, when necessary, be made two or three times
2 during the progress of installation; first, when work is roughed
3 in and last, when work is completed. It shall be the duty of the
4 EI to indicate inspection of any work by a tag or label attached
5 to the service wires or a certificate issued to the person taking
6 out the permit. Such tag or permit shall state the date and loca-
7 tion and whether or not rough or final inspection has been made.
8 It shall be unlawful for any workman or any person to conceal any
9 electrical work until such first inspection tag has been placed.

10 3. It shall be unlawful for the SEI or any of his
11 assistants to engage in or have any financial interest in any
12 business selling, installing, or maintaining, electrical wiring,
13 devices, appliances, or equipment in the City of Las Vegas.

14 IV. CERTIFICATE

15 Upon application for inspection of any wiring, apparatus,
16 fixtures, or appliances as hereinafter provided, the EI shall,
17 after inspection and examination, issue a certificate showing the
18 result of such examination and any correction which need to be
19 made.

20 V. UNLAWFUL INSTALLATION

21 (A) If the EI shall find any part of any electric light
22 or power wiring, appliance, apparatus, or fixture in or upon any
23 building in the City of Las Vegas to have been installed without
24 a permit or installed in such a manner to constitute a hazard, the
25 SEI shall have the right and power to disconnect electrical service
26 and place a seal upon same, and shall at the same time give
27 written notice of such disconnection to the owner or occupant of
28 the building and the electrical power utility company. After the
29 wiring, fixtures, appliances or apparatus have been put in the
30 condition required by this Chapter, the seal so placed shall be
31 removed by order of the SEI. It shall be unlawful for any person
32 to use any current in or through such disconnected wiring,

1 appliance, apparatus, or fixture, or otherwise supply current to
2 such disconnected wiring, fixture, appliance, or apparatus, or
3 to remove, break, or deface any seal so placed.

4 (B) Whenever any building work is being done contrary
5 to the provisions of this Code, or contrary to a permit issued,
6 the Building Official may order work stopped by notice in writing
7 served on any persons engaged in the doing or causing such work
8 to be done, and any such person shall forthwith stop such work
9 until authorized by the Building Official, to proceed with the
10 work. Whenever any work has been stopped for reason above, a fee
11 of \$20.00 shall be paid to the City before any work pertaining to
12 the stop order can again commence. Any person who shall knowingly
13 proceed to do building work in violation of any stop order shall
14 be guilty of a misdemeanor.

15 VI. PERMITS

16 (A) 1. No alteration or addition may be made in
17 existing wiring, nor shall any wiring be installed or layed out
18 for any lights, power, or heating devices, or any apparatus which
19 generates, transmits, transforms, or utilizes any electricity,
20 including private telephone systems, nor shall any alteration be
21 made to a wiring system after final inspection without first
22 notifying the SEI and securing a permit therefor; provided, however,
23 that no such permit shall be required for service work or changeouts,
24 in single family dwellings only, of existing air conditioning/
25 heating units which have identical ampacity requirements, including
26 wiring from the overcurrent protection device for the feeder
27 conductors which supply the air conditioning/heating unit. Applica-
28 tions for such permit shall describe the proposed work and shall be
29 made in writing by the person, firm or corporation which will do
30 the work. Each applicant shall state the work location by street
31 and house number, and the permit shall be valid only for that
32 location.

1 2. The issuance or granting of a permit or approval
2 of plans and specifications shall not be construed to be a permit
3 for, or an approval of, any violation of any of the provisions of
4 this code or of any other ordinance of the jurisdiction. No
5 permit presuming to give authority to violate or cancel the
6 provisions of this code shall be valid.

7 3. The issuance of a permit based upon plans, specifica-
8 tions and other data shall not prevent the building official from
9 thereafter requiring the correction of errors in said plans,
10 specifications and other data or from preventing building opera-
11 tions being carried on thereunder when in violation of this code
12 or any other ordinance of this jurisdiction.

13 4. Every permit issued by the building official under
14 the provisions of this code shall expire by limitation and become
15 null and void if the building or work authorized by such permit
16 is not commenced within 180 days from the date of such permit, or
17 if the building or work authorized by such permit is suspended or
18 abandoned at any time after the work is commenced for a period of
19 180 days. Before such work can be recommenced, a new permit
20 shall be first obtained so to do, and the fee therefor shall be
21 one-half the amount required for a new permit for such work,
22 provided no changes have been made or will be made in the original
23 plans and specifications for such work, and provided, further, that
24 such suspension or abandonment has not exceeded one year.

25 5. Any permittee holding an unexpired permit may apply
26 for an extension of time within which he may commence work under
27 that permit when he is unable to commence work within the time
28 required by this section for good and satisfactory reasons. The
29 building official may extend the time for action by the permittee
30 for a period not exceeding 180 days upon written request by the
31 permittee showing that circumstances beyond the control of the
32 permittee have prevented action from being taken. No permit shall

1 be extended more than once. In order to renew action on a permit
2 after expiration, the permittee shall pay a new full permit fee.
3 A permit shall not be required for minor work such as repairing
4 flush and snap switches, replacing fuses, changing lamp sockets
5 and receptacles and fixtures, taping bare joints, and repairing
6 drop cords. This section shall not apply to wires installed in
7 power houses and substations belonging to electric light and
8 telephone companies operating under franchises granted by the City
9 of Las Vegas.

10 (B) Each application for a permit to install electrical
11 wiring in single family dwellings and accessory buildings (sheds,
12 garages, etc.) must have attached thereto a drawing showing the
13 electrical layout, including the wiring apparatus complete with load
14 calculations, if requested. Each application for a permit to
15 install electrical wiring in commercial establishments (all other
16 than single family dwellings) shall have attached thereto drawings
17 showing in detail the proposed method of installation of the
18 wiring apparatus, complete with load calculations in accord-
19 ance with Article 215-5 and as stated herein. The SEI may waive
20 drawings for small, insignificant additions or structures.

21 (C) In order to secure a permit for the installation
22 of electrical wiring, fixtures, appliances or apparatus, written
23 application shall be made to the Department of Building and Safety
24 on blanks provided for the purpose of said permit, and the
25 applicant therefor shall pay in advance all fees provided for in
26 the Permit Fee Section.

27 (D) It is the responsibility of the prime contractor
28 to enforce this permit requirement with regard to all subcontrac-
29 tors performing electrical work under the contract. An entire
30 project may be stopped by the SEI if any electrical work has been
31 performed without a permit.

32 (E) For an electrical elevator there shall be permit

1 fee based on the horsepower of its motor or motors to cover the
2 inspection of the power wiring to and including the branch circuit
3 disconnect. Inspection beyond this point shall be by the appro-
4 priate governmental agency which shall furnish the Department
5 of Building and Safety a copy of the final acceptance of the
6 elevator prior to public use.

7 (F) Any person who shall commence any electrical work
8 for which a permit is required by this Chapter, without first
9 having obtained a permit therefor, shall, if subsequently per-
10 mitted to obtain a permit, pay double the regular permit fee.
11 This provision, however, shall not apply to emergency work when
12 it shall be provided to the satisfaction of the SEI that such
13 work was urgently necessary and that it was not practicable to
14 obtain a permit therefor before the commencement of the work.
15 In all such cases, a permit must be obtained as soon as practi-
16 cable and if there is an unreasonable delay in obtaining such
17 permit, a double fee shall be charged.

18 (G) 1. The Building Official may authorize the refunding
19 of any fee paid hereunder which was erroneously paid or collected.

20 2. The Building Official may authorize the refund-
21 ing of not more than 80 percent of the permit fee paid when no
22 work has been done under a permit issued in accordance with this
23 code.

24 3. The Building Official may authorize the refund-
25 ing of not more than 80 percent of the plan review fee paid when
26 an application for a permit for which a plan review fee has been
27 paid is withdrawn or cancelled before any plan reviewing is done.

28 4. The Building Official shall not authorize the
29 refunding of any fee paid except upon written application filed
30 by the original permittee not later than 180 days after the date
31 of fee payment.

32

VII OWNER'S PERMIT

Any permit required by this Chapter may be issued to any person for work in a single family dwelling used exclusively for living purposes, including the usual accessory buildings and quarters in connection with such buildings, if:

(A) The person is the bona fide owner of the premises containing such dwelling, accessory buildings, and quarters;

(B) The same are occupied or designated to be occupied by said Owner.

VIII. ELECTRICAL PERMIT FEES

(A) An applicant for an electrical permit shall pay a fee based on the following table at the time of the permit's issuance:

Permit Issuance	\$ 10.00
Supplemental Fee	4.50
Appliance Charge	
Receptacle/Switch	.40
Light Fixture or Socket	.30
Each Outlet For:	
Dishwasher, Garbage Grinder, Trash Compactor, G.F.I., Clothes Washer, Dryer, Electric Range, Ovens, Smoke Detector, Special Purpose, Water Heater, Space Heater, Blast Coil Heater (Per K.W.), Mercury Lamp, Quartz Lamp, Sodium Lamp	.70
X-ray Unit	10.00
Area Lighting (First 3000 Watts)	8.00
Each Additional 1000 Watts	3.00
Motors (1/2 H.P. and over)	
Transformers, Welders, and Generators	
First H.P. for each unit	3.00
First KVA for each unit	3.00
Each Additional H.P. or KVA up to 50	.50
Each H.P. or KVA over 50	.35
Temporary Power or Pole	6.00
Electric Service (including first meter)	6.00
Up to 200 Amp	
400 Amp and 600 Amp	12.50
Over 600 Amp to 1200 Amp	25.00
Over 1200 Amp	50.00
Each Additional Meter Socket	.50
Sub Panel (each)	3.00
Swimming Pool (Residential)	20.00
Swimming Pool (Semi-Public)	30.00
Spas	8.00
Recreational Vehicles Spaces (each)	3.00
Busways-Trolley or Plug-in (each 100 feet)	3.00
All Miscellaneous Electric	
Permanent A/C Unit (Package Units)	3.00

1	Each Air Handler	\$ 1.00
	Low Voltage Installations	
2	Speaker Outlets (each)	.30
	Signal or Alarm Outlets (each)	.30
3	Amplifiers	2.00
	Control Panel	.50
4	TV Master System	.30
	Telephone or Computer Outlet	.30
5	Other Inspections and Fees	
	Inspection outside of normal business	25.00
6	hours	Per Hr.
		(minimum 3 hours)
7	Reinspection fee during normal business	
	hours assessed under provisions	30.00
8	of Table #-A of the U.B.C.	Per Hr.
	Inspection for which no fee is	30.00
9	specifically indicated	Per Hr.
	Additional plan review changes, additions,	30.00
10	or revisions to approved plans	Per Hr.
		(minimum 1 hour)

12 (B) As an alternative to the payment of the permit fee
13 stated above, the Building Official may allow a permit fee which
14 is based upon UBC total valuation of the building. Whenever the
15 valuation of the building is used, it must be calculated for each
16 individual structure, and a permit must be obtained for each indiv-
17 idual structure.

18 (C) The determination of the building valuation for
19 purposes of this section shall be made by the Department of Build-
20 ing and Safety. The value to be used in computing the permit
21 fees and the plan review fees shall be the total value of all
22 construction work for which the permit is issued as well as all
23 finish work, painting, roofing, electrical, plumbing, heating,
24 air conditioning, elevators, fire extinguishing systems and any
25 other permanent equipment.

26 IX. RULES GOVERNING INSTALLATION

27 Except as otherwise provided, all electrical wiring,
28 installations or electrical fixtures, apparatus or appliances for
29 furnishing light, heat, and/or power introduced or placed in or
30 on any building or structure in the City of Las Vegas shall be
31 in conformity with the rules and requirements of the NEC and NFPA
32 and this Chapter. All fittings and material used in such installa-

1 tions must be sanctioned in the list of electrical fittings by
2 UL or other approved agencies or approved by SEI as meeting
3 equivalent standards.

4 X. NOTICE OF INSPECTION

5 Upon completion of the installation of any electrical
6 wiring, fixtures, appliances, or apparatus in or on any building,
7 it shall be the duty of the persons doing the work to notify the
8 EI who shall inspect the same within twenty-four (24) hours.
9 If the EI approves the work, he shall issue a certificate of final
10 electrical inspection which shall contain the date of such inspec-
11 tion and an outline of the result. It shall be unlawful for any
12 person to turn on or connect the current to an installation until
13 such certificate has been issued. It shall also be unlawful to
14 change, alter, or extend any electrical wiring, fixture, appliance
15 or apparatus in or on any building after the final electrical
16 inspection without notifying the EI and securing a permit therefor,
17 except for emergency repair work as noted above. When any part
18 of a wiring installation is to be concealed by a permanent place-
19 ment of parts of the building, the person performing the electrical
20 installation or the general contractor shall notify the Depart-
21 ment of Building and Safety at least twenty-four (24) hours prior
22 to such proposed concealment and such parts shall not be con-
23 cealed until they have been inspected and approved by the EI;
24 provided that on large installations where the concealment of
25 parts of the wiring proceed continuously the person installing
26 the wiring shall give the EI due notice as above specified and
27 inspections shall be made periodically during the progress of the
28 work. The EI shall have the authority to remove or require the
29 removal of any obstruction that prevents proper inspection of any
30 electrical equipment or installation.

31 XI. RIGHT OF ENTRY

32 Whenever necessary to make an inspection to enforce any

1 of the provisions of this Code, or whenever the Director or his
2 authorized representative have reasonable cause to believe that
3 there exists in any building or upon any premises any condition
4 which makes such building or premises unsafe as defined in
5 Section 302 of the Uniform Code for Abatement of Dangerous Build-
6 ings, the Director or his authorized representative may request
7 entry from the owner or other person having charge or control of
8 the building or premises. If such entry is refused, the Director
9 or his authorized representative shall have recourse to every
10 remedy provided by law to secure entry, including obtaining a
11 search warrant from the Las Vegas Municipal Court.

12 XII. RESPONSIBILITY FOR DAMAGES

13 Nothing in this ordinance shall be construed to relieve
14 or lessen the responsibility of any person owning, operating, or
15 installing any electrical wires, fixtures, appliances, apparatus,
16 or equipment for damages to persons or property resulting from
17 any defect therein, neither the City nor any employee thereof
18 shall be held liable for damages resulting from the failure to
19 inspect or the failure to discover any defect in any structure
20 required to be inspected by this ordinance.

21 XIII. CITY ELECTRICAL BOARD

22 (A) There is hereby created the CEB which shall consist
23 of eleven (11) members appointed by the CC as follows:

24 1. One (1) representative of an electric utility
25 company;

26 2. One (1) representative of a telephone utility
27 company;

28 3. Two (2) Master Electricians as representatives of
29 the electrical contractors;

30 4. One (1) Master Neon Technician as representative
31 of the Electric sign contractors;

32 5. One (1) Master Technician as representative of the

1 sound or signal system contractors;

2 6. One (1) Electrical Engineer registered in and for
3 the State of Nevada;

4 7. Two (2) Certified Electricians;

5 8. One (1) Layman; and

6 9. One (1) Low Voltage Technician.

7 The SEI or his representative shall act as Secretary,
8 provided that the SEI or his representative shall have no vote.

9 (B) It shall be the duty of the CEB to recommend to
10 the Director the suspension or revocation of certificates upon
11 good and sufficient cause. The Director will then advise the CC
12 of his recommendations with respect to such suspension or revoca-
13 tion. The CEB will also act as a consultant for the SEI and take
14 such action as it may find to be necessary or desirable in order
15 to carry out the provisions of this Code.

16 (C) The SEI, as Secretary to the CEB, shall keep the
17 records of all meetings, which records shall be open for inspection
18 during normal City business hours. He shall also keep a record
19 of all certificates issued.

20 (D) The presence of six (6) members of the CEB at any
21 meeting shall constitute a quorum for recommending disciplinary
22 action against any certificate holder and for the transaction of
23 other business, and a majority vote of such quorum shall prevail.

24 (E) It shall be the responsibility of every contractor
25 and its ME and QI to inform the SEI in writing of any change of
26 the employment status of the ME or the QI within ten (10) days
27 after that change is effective.

28 (F) A Master Certificate shall be valid for one
29 business only. Simultaneous use of such certificate for more
30 than one contractor shall result in the revocation of such
31 certificate. Notwithstanding anything above to the contrary, an
32 owner who holds a Master Certificate may be the ME for his own

1 business.

2 (G) The fees, examination, certification and renewal
3 requirements and procedures which are outlined above shall apply
4 equally to MES, MNEs and MTs.

5 (H) The SEI or his deputy shall examine applicants for
6 Electrician's Certificate of Qualification (ECQ) by a written
7 examination and grade the same. A fee of \$10.00 shall be charged
8 for this examination and a grade of 70% thereon shall entitle the
9 examinee to an Electrician's Certificate of Competency. If the
10 examination is failed, the applicant must wait at least thirty
11 (30) days to retake the examination and shall pay a new fee of
12 \$10.00. Every Electrician's Certificate shall remain in effect
13 for a period of one year. A ten dollar (\$10.00) fee shall be
14 charged for the renewal of the certificate. Electrician's Certifi-
15 cates may be revoked after a hearing by the CEB for cause (incompe-
16 tency or willful violation of this Code.)

17 XIV. LICENSING

18 (A) Any person engaged in the business of wiring,
19 building, or installing electrical equipment or appliances,
20 including private telephone systems, in the City of Las Vegas,
21 Nevada, shall first secure a business license from the Director
22 of the Department of Business Activity. Said license must be
23 kept valid as long as the applicant is engaged in electrical work.
24 Before applying for a business license, the applicant shall first
25 obtain a contractors' license from the Nevada State Contractors'
26 Board for those areas of electrical work for which a contractors'
27 license is required by Chapter 624 of the Nevada Revised Statutes,
28 and the applicant or one of his employees must possess a ME's
29 certificate or a QI's certificate which has been issued by said
30 Contractors' Board after July 1, 1985. In doubtful cases where it
31 is unclear whether or not a State Contractors' license is necessary
32 to do the electrical work contemplated, the City may require the

1 applicant to furnish written proof from the said Contractors' Board
2 that a State license is not necessary. Each applicant shall furnish
3 a bond as required by the City's licensing ordinance which is
4 administered by the Department of Business Activity. Before apply-
5 ing for a business license to install electrified signs in the City
6 of Las Vegas, the applicant shall have in his possession a valid
7 electric sign contractors' license which has been issued said
8 Contractors' Board in instances, in which such license is required
9 by State law, and shall either possess himself or have someone in
10 his employ who possesses a valid MNE's certificate or a valid QI's
11 certificate which has been issued by said Contractors' Board after
12 July 1, 1985. Before applying a business license to do low voltage
13 electrical work in the City of Las Vegas, the applicant shall
14 have in his possession a valid contractors' license for low
15 voltage systems which has been issued by said Contractors' Board,
16 in instances in which such license is required by State law, and
17 shall either possess himself or have someone in his employ who
18 possesses a valid MT's certificate or a valid QI's certificate
19 which has been issued by said Contractors' Board after July 1,
20 1985. It shall be the responsibility of every electrical con-
21 tractor to assure that each of its employees who works at the
22 trade of installing electrical wiring systems possesses a valid
23 electrician's certificate which has been issued by an approved
24 agency.

25 XV. REVOCATION OF CERTIFICATE

26 Upon presentation to the CEB of charges that the holder
27 of any certificate has violated any provisions of the City Code
28 or this ordinance regulating electrical installations and permits
29 for the use of electricity, or is incompetent or unfit to comply
30 with such regulations, the CEB may hold a hearing to determine
31 whether or not a recommendation should be made to the Director to
32 suspend or revoke the certificate or to take other disciplinary

1 action. All such recommendations must be filed with the Director,
2 who will then advise the CC of his recommendations with respect to
3 such suspension, revocation or other disciplinary action. The
4 holder of the certificate in question shall be given notice of the
5 allegations against him and the opportunity to appear at the
6 hearing to refute said charges. If, after such hearing, the CEB
7 votes to recommend the suspension or revocation of the certificate
8 or to take any other disciplinary action against the holder there-
9 of, the holder shall be notified in writing by the Director that
10 such a recommendation has been made and that unless he can show
11 good and sufficient cause to the CC why the certificate should
12 not be suspended or revoked or such other disciplinary action
13 should not be taken against him, the CC may order the Director to
14 suspend or revoke the certificate or to take such other disciplin-
15 ary action against the holder thereof. This notification shall be
16 delivered to the holder of the certificate at least ten (10) days
17 in advance of the intended action before the CC. When a cer-
18 tificate has been so revoked, a new certificate shall not be
19 granted to the same person to perform electrical work within the
20 corporate boundaries of the City until such person has waited at
21 least one year and the CEB has determined that such person is
22 competent and meets all of the requirements of this Code. The CC
23 can, at any time on its own motion after notice and hearing and
24 for good and proper cause, revoke or suspend any certificate or
25 take other disciplinary action against the holder thereof.

26 SECTION 2: Article 220-2 of the National Electrical
27 Code, 1984 Edition, is hereby amended by adding a new paragraph,
28 designated as paragraph (E), reading as follows:

29 (E) Limitations.

30 (1) No more than twelve (12) receptacles of the
31 duplex convenience type may be installed on any 20A circuit,
32 except on small appliance circuits where there shall be only four

1 (4) receptacles. No more than ten (10) receptacles may be in-
2 stalled on any 15A circuit. A 120 volt receptacle shall be located
3 within 25' of mechanical equipment. (See Section 509, Uniform
4 Mechanical Code).

5 (2) Fixed appliance circuits. Each appliance
6 (washer, dishwasher, gas dryer, cooler, oven, tabletop cooking
7 units, etc.) shall be supplied by a separate circuit. Each fixed
8 electrical wall heater at one hundred and twenty (120) volts or
9 more shall be supplied by a separate 20 amp branch circuit. All
10 storage type water heater circuits shall be wired with #10 Cu.
11 minimum.

12 (3) Smoke detector devices or apparatus, where
13 required, shall be directly connected as required under Section
14 1210 (A) of the Uniform Building Code.

15 (4) Subpanels shall not be installed in clothes
16 closets or bathrooms. EXCEPTION: A walk-in clothes closet where
17 clearance is provided. (See 240-24D).

18 SECTION 3: Sections 220-30 to 220-33, inclusive, of
19 Article 220 of the National Electrical Code, 1984 Edition, are
20 hereby repealed in their entirety.

21 SECTION 4: Section 230-70(a) of Article 230 of the
22 National Electrical Code, 1984 Edition, is hereby repealed in
23 its entirety and a new paragraph (a) adopted in lieu thereof
24 reading as follows:

25 (a) All services shall have a means of disconnect
26 located on the outside of the building or structure. Where more
27 than one service to a building or other structure is permitted, a
28 permanent graphic display plaque shall be installed at each
29 service location denoting all other services on or in that build-
30 ing or structure and the area served by each. The service dis-
31 connecting means and the graphic display plaque shall meet the
32 requirements of the building official.

1 All residential underground service conduit risers
2 shall be a minimum two inch (2") stubout. (All ungrounded service
3 entrance-conductors and service laterals shall have equal ampacity.)
4 A shunt trip device shall be acceptable as a main electrical
5 disconnect for a building. The circuit supplying the shunt trip
6 shall be wired from the line side of the service. It shall be
7 painted yellow and identified in black letters as the electrical
8 disconnect for the structure.

9 SECTION 5: Article 250 of the National Electrical Code,
10 1984 Edition, is hereby amended to add thereto the following
11 language:

12 GROUNDING AND BONDING

13 The grounding electrode system for buildings shall
14 include, in addition to one other ground electrode, an electrode
15 shall be placed which shall be encased by at least two inches
16 (2") of concrete, located within and near the bottom of concrete
17 foundation or footing that is in direct contact with earth,
18 consisting of at least twenty feet (20') of one or more steel
19 reinforcing bars or rods of not less than one-half inch (1/2")
20 diameter, or consisting of at least twenty feet (20') of bare
21 solid copper conductor not smaller than No. 4 AWG. Connections
22 to electrodes of steel reinforcing bars or rods, where the ground
23 electrode conductor is larger than No. 2 AWG, shall be by welding,
24 brazing or similar processes or as approved by the Building
25 Official or his designated representative. A grounding electrode
26 conductor shall not be permitted to be installed on the utility
27 side of any service equipment.

28 SECTION 6: Article 300 of the National Electrical Code,
29 1984 Edition, is hereby amended to add a new section, designated
30 as Section 300-23, reading as follows:

31 Old or used materials shall not be used in any work
32 without the permission of the Director of Building and Safety,

1 obtained in advance. Abandoned wiring shall be removed back to
2 its source of supply.

3 SECTION 7: Section 310-2(b) of Article 310 of the
4 National Electrical Code, 1984 Edition, is hereby amended by
5 adding the following sentence:

6 Aluminum and copper clad conductors smaller than #6 AWG
7 shall not be used.

8 SECTION 8: Section 336-3 of Article 336 of the National
9 Electrical Code, 1984 Edition, is hereby amended by adding a new
10 paragraph, designated as paragraph (d), reading as follows:

11 (d) NM or NMC non-metallic sheathed cable shall not be
12 used in the following areas:

13 (1) Shall not be permitted in any structure used for
14 commercial purposes except apartment house as defined in the
15 Uniform Building Code which are rented on a monthly basis.

16 (2) All non-metallic sheathed cables and metal raceways
17 shall terminate in an approved metal box, cabinet, cutout box,
18 pullbox, switch box, gutter or switchboard, or equal, as approved
19 by the governing authority. Type NMC cables shall be a permitted
20 use in one- and two-family dwellings and multi-family dwellings
21 with individual metering not exceeding three stories.

22 (3) Wiring which is installed in recreation buildings,
23 swimming pool equipment rooms and detached laundry buildings shall
24 be installed in metallic raceways.

25 SECTION 9: Article 346 of the National Electrical Code,
26 1984 Edition, is hereby amended by adding a new section designated,
27 as 346-16, reading as follows:

28 346-16: Metallic raceways: When installed on ground
29 or in earthfill, galvanized rigid metal conduit or IMC shall have
30 an approved extruded PVC jacket or equal protection as approved
31 by the enforcing authority including all fittings, and shall be
32 installed in a manner that will not change the extruded jacket.

1 SECTION 10: Section 347-2(g) of Article 347 of the
2 National Electrical Code, 1984 Edition, is hereby amended by adding
3 thereto the following language:

4 This section shall not be construed as prohibiting
5 the use of non-metallic raceways. PVC may transit from a slab
6 into a protected area, but not be used in buildings of noncom-
7 bustible construction as defined by the UBC. Where PVC transits
8 from underground unprotected, it shall be Schedule 80.

9 SECTION 11: Article 348 of the National Electrical
10 Code, 1984 Edition, is hereby amended by adding thereto a new
11 section, designated as 348-16, reading as follows:

12 348-16: Metallic Tubing. Electrical metallic tubing
13 may be used for both concealed and exposed work except in the
14 following places:

- 15 1. Slabs in contact with earth;
- 16 2. Underground;
- 17 3. In earthfills; or
- 18 4. In location subject to mechanical damage.

19 SECTION 12: Section 350-5 of Article 350 of the
20 National Electrical Code, 1984 Edition, is hereby repealed in
21 its entirety and a new section adopted in lieu thereof, reading
22 as follows:

23 All flexible conduit in any length shall contain a
24 grounding conductor. Grounding conductors, where permitted to
25 be spliced, shall require a mechanical device.

26 SECTION 13: Section 410-8(a) of Article 410 of the
27 National Electrical Code, 1984 Edition, is hereby amended by
28 adding a new provision, designated as subsection (3), reading
29 as follows:

30 (3) Closet lighting: Any walk-in closet of twenty
31 square feet (20 sq. ft.) or more in floor area shall have a light
32 fixture and wall switch.

1 SECTION 14: Article 550-3(a) of the National Electrical
2 Code, 1984 Edition, is hereby amended by adding thereto the
3 following language:

4 Electrical service to all mobile home parks and to all
5 spaces, etc., in mobile home parks shall be provided by a fran-
6 chised serving utility unless approved by the authority having
7 jurisdiction.

8 SECTION 15: Section 680-8 of Article 680 of the
9 National Electrical Code, 1984 Edition, is hereby amended to add
10 thereto the following language:

11 The distances required under Item A may be waived when-
12 ever the direct line of sight between the edge of the pool's
13 water surface and the existing utility-owned, utility-operated
14 and utility-maintained supply lines or service-drops is broken by
15 a permanent structure which breaks the line of sight and causes
16 a deviation such that the resulting unobstructed path satisfies
17 the distance requirement of Item A.

18 SECTION 16: Section 700-6 of Article 700 of the
19 National Electrical Code, 1984 Edition, is hereby amended to add
20 thereto the following language:

21 In any building or structure in which an emergency
22 generator is installed, the emergency panel and any automatic
23 transfer switches shall not be permitted in the same enclosure or
24 room with the normal power switchgear.

25 SECTION 17: Article 700 of the National Electrical
26 Code, 1984 Edition, is hereby amended by adding thereto a new
27 section, designated as 700-10, reading as follows:

28 Where an emergency generator is installed for the pro-
29 tection of life safety, the following systems, if required by the
30 Uniform Building Code (1982 edition), A.N.S.I. Code or N.F.P.A.
31 1983, shall be installed using mineral insulated cable or protected
32 by a separate 1 hour enclosure which shall contain only the

1 emergency or legally required stand-by system wiring which is
2 listed below:

3 A. Emergency system wiring to the overcurrent device
4 protecting the branch circuits.

5 B. Feeder wiring to fire alarm master panel and
6 feeder wiring to voice control and communication panels.

7 C. Elevator feeder and control wiring to motors.

8 D. Mechanical smoke removal system.

9 EXCEPTION: Feeder conductors located outside of a building or
10 structure or underground shall be considered protected in com-
11 pliance with Articles 700 and 701.

12 SECTION 18: Article 700 of the National Electrical
13 Code, 1984 Edition, is hereby amended by adding thereto a new
14 section, designated as 700-11, reading as follows:

15 ELEVATORS - Where loss of normal power occurs an
16 emergency condition shall exist and all elevators shall sequence
17 to the designated level and doors shall open and remain open.
18 A three position key located in the lobby shall activate the
19 elevators. Where elevators must comply with A 17-1-Rule 211.3
20 an emergency generator shall be required in order to meet the
21 Rule 211.3 A and B.

22 SECTION 19: Article 725 of the National Electrical
23 Code, 1984 Edition, is hereby amended by adding a new section,
24 designated as 725-6, reading as follows:

25 725-6: UL Raceways for Class 1, Class 2 and Class 3
26 circuits. All Class 1 circuits low voltage wiring shall be in
27 metallic raceways (conduits) except where NM or NMC wiring is
28 permitted.

29 (a) All life safety wiring systems or low voltage
30 wiring systems in concealed spaces shall be in metallic conduit.

31 (b) Fire protection systems, sound systems, burglar
32 alarms, industrial process systems, closed circuit t.v. systems,

1 shall be installed in UL metallic raceways except where NM or
2 NMC wiring system is used.

3 (c) Fire alarm systems wherein special cable must run
4 exposed as it shall act as a thermostat to sound the signal and
5 it is further arranged to sound a trouble signal in the event
6 of breakage in the wire, shall not be required to be in conduit.

7 (d) Wiring for industrial processes or burglar alarm
8 systems need not be in conduit when it is impractical to attach
9 to detection devices in other than concealed spaces or outside
10 the building.

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AFFIDAVIT OF PUBLICATION

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STATE OF NEVADA, { ss.
COUNTY OF CLARK

Carol Black, being first duly sworn,

deposes and says: That he is Legal Clerk of the CITY OF LAS VEGAS SUN, a daily newspaper of general circulation, printed and published at Las Vegas, in the County of Clark, State of Nevada, and that the attached was continuously published in said newspaper for a period of 1 time.

from December 19, 1985 to December 19, 1985

inclusive, being the issues of said newspaper for the following dates, to-wit:

December 19, 1985

That said newspaper was regularly issued and circulated on each of the dates above named.

Signed Carol Black

Subscribed and sworn to before me this 19th day of December, 1985

Ruthe V. Deskin

Notary Public in and for Clark County, Nevada

My Commission Expires


RUTHE V. DESKIN
Notary Public - State of Nevada
CLARK COUNTY
My Appointment Expires Apr. 14, 1989

BILL NO. 85-60
FIRST AMENDMENT
AN ORDINANCE RELATING TO THE ADOPTION OF AN ELECTRICAL CODE; AMENDING TITLE 16, CHAPTER 12, SECTION 10, OF THE MUNICIPAL CODE OF THE CITY OF LAS VEGAS, NEVADA, 1983 EDITION, BY DELETING ALL REFERENCES TO THE 1981 EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED BY REFERENCE THEREIN AND ADOPTING BY REFERENCE, IN LIEU THEREOF, THE 1984 EDITION OF THE NATIONAL ELECTRICAL CODE AS PART 1 OF SAID CHAPTER, REPEALING IN ITS ENTIRETY THE EXISTING SUPPLEMENTAL DOCUMENT, AND AMENDMENTS THERETO, ADOPTED BY REFERENCE THEREIN AND ADOPTING BY REFERENCE, IN LIEU THEREOF, A NEW SUPPLEMENTAL DOCUMENT, ENTITLED: "A SUPPLEMENTAL DOCUMENT AMENDING THE NATIONAL ELECTRICAL CODE, 1984 EDITION" AS PART II OF SAID CHAPTER, WHICH ADDS VARIOUS PROVISIONS TO THE NATIONAL ELECTRICAL CODE, 1984 EDITION; PROVIDING OTHER MATTERS PROPERLY RELATING THERETO; REPEALING ALL ORDINANCES OR PARTS OF ORDINANCES IN CONFLICT HEREWITH; AND PROVIDING PENALTIES FOR THE VIOLATION HEREOF.
Sponsored by:
Councilman Al Levy
Summary: Adopts the 1984 National Electrical Code, together with a supplemental document providing amendments thereof, deletions therefrom and additions thereto, as the City's Electrical Code.
At a City Council meeting
December 4, 1985
BILL NO. 85-60 WAS READ BY TITLE AND REFERRED TO RECOMMENDING COMMITTEE:
COUNCILMEN Levy and Lurie
COPIES OF THE COMPLETE ORDINANCE ARE AVAILABLE FOR PUBLIC INFORMATION IN THE OFFICE OF THE CITY CLERK
10TH FLOOR, CITY HALL
400 EAST STEWART AVENUE
LAS VEGAS, NEVADA
PUB: December 19, 1985
Las Vegas SUN

AFFIDAVIT OF PUBLICATION

STATE OF NEVADA) SS
COUNTY OF CLARK)

Mr. George J. Vasconi, being first duly sworn, deposes and says that he is Business Manager for the LAS VEGAS REVIEW-JOURNAL, a daily newspaper at Las Vegas, in the County of Clark, State of Nevada, and that the attached was continuously published in said newspaper for a period of one insertions from period of January 7, 1986 to January 7, 1986 inclusive, being the issue of said newspaper for the following dates, to wit:

January 7, 1986

That said newspaper was regularly issued and circulated on each of the dates above named.

FIRST AMENDMENT
BILL NO. 85-60
Ordinance No. 3211
AN ORDINANCE RELATING TO
ADOPTION OF AN ELECTRICAL
CODE; AMENDING TITLE 16,
CHAPTER 12, SECTION 10, OF THE

MUNICIPAL CODE OF THE CITY OF LAS VEGAS, NEVADA, 1983 EDITION, BY DELETING ALL REFERENCES TO THE 1981 EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED BY REFERENCE THEREIN AND ADOPTING BY REFERENCE, IN LIEU THEREOF THE 1984 EDITION OF THE NATIONAL ELECTRICAL CODE AS PART I OF SAID CHAPTER; REPEALING IN ITS ENTIRETY THE EXISTING SUPPLEMENTAL DOCUMENT, AND AMENDMENTS THERETO, ADOPTED BY REFERENCE THEREIN AND ADOPTING BY REFERENCE, IN LIEU THEREOF, A NEW SUPPLEMENTAL DOCUMENT, ENTITLED: "A SUPPLEMENTAL DOCUMENT AMENDING THE NATIONAL ELECTRICAL CODE, 1984 EDITION" AS PART II OF SAID CHAPTER, WHICH ADDS VARIOUS PROVISIONS TO THE NATIONAL ELECTRICAL CODE, 1984 EDITION; PROVIDING OTHER MATTERS PROPERLY RELATING THERETO; REPEALING ALL ORDINANCES OR PARTS OF ORDINANCES IN CONFLICT HERewith; AND PROVIDING PENALTIES FOR THE VIOLATION HEREOF.

Sponsored by:
Councilman Al Levy
Summary:

Adopts the 1984 National Electrical Code, together with a supplemental document providing amendments thereto, deletions therefrom and additions thereto, as the City's Electrical Code.

The above and foregoing amended ordinance was first proposed and read by title to the City Council on the 4th day of December, 1985, and referred to the following committee composed of Councilmen Levy and Lurie, for recommendation; thereafter the said committee reported favorably on said amended ordinance on the 2nd day of January, 1986, which was a regular meeting of said City Council; that at said regular meeting the proposed ordinance was read by title to the City Council as amended and adopted by the following vote:

SIGNED

George J. Vasconi
GEORGE J. VASCONI

Subscribed and sworn to before me this 7th day of Jan, 1986

Marjorie E. Ouellette

NOTARY PUBLIC, IN AND FOR CLARK COUNTY, NEVADA



MARJORIE E. OUELLETTE

Notary Public - State of Nevada

CLARK COUNTY

My Appointment Expires Dec. 2, 1989

VOTING "AYE"
Councilmen: Bunker, Levy, Lurie,
Nolen and Mayor Briare
VOTING "NAY"
Councilmen: NONE
ABSENT: NONE
COPIES OF THE COMPLETE ORDINANCE ARE AVAILABLE FOR PUBLIC INFORMATION IN THE OFFICE OF THE CITY CLERK, 10th FLOOR, CITY HALL, 400 EAST STEWART AVENUE, LAS VEGAS, NEVADA.
PUB: January 7, 1986

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RECEIVED

AFFIDAVIT OF PUBLICATION

STATE OF NEVADA) SS
COUNTY OF CLARK)

Mr. George J. Vasconi, being first duly sworn, deposes and says that he is Business Manager for the LAS VEGAS REVIEW-JOURNAL, a daily newspaper at Las Vegas, in the County of Clark, State of Nevada, and that the attached was continuously published in said newspaper for a period of one insertions from period of January 7, 1986 to January 7, 1986 inclusive, being the issue of said newspaper for the following dates:
to wit:

January 7, 1986

That said newspaper was regularly issued and circulated on each of the dates above named.

FIRST AMENDMENT
BILL NO. 85-60
Ordinance No. 3211
AN ORDINANCE RELATING TO
ADOPTION OF AN ELECTRICAL
CODE AMENDING TITLE 16,
CHAPTER 12, SECTION 10, OF THE

MUNICIPAL CODE OF THE CITY OF
LAS VEGAS, NEVADA, 1983 EDITION,
BY DELETING ALL REFERENCES TO THE
1981 EDITION OF THE NATIONAL
ELECTRICAL CODE ADOPTED BY REFERENCE
THEREIN AND ADOPTING BY REFERENCE,
IN LIEU THEREOF, THE 1984 EDITION
OF THE NATIONAL ELECTRICAL CODE AS
PART I OF SAID CHAPTER; REPEALING IN
ITS ENTIRETY THE EXISTING SUPPLEMENTAL
DOCUMENT, AND AMENDMENTS THERETO
ADOPTED BY REFERENCE THEREIN AND
ADOPTING BY REFERENCE, IN LIEU
THEREOF, A NEW SUPPLEMENTAL DOCUMENT,
ENTITLED: "A SUPPLEMENTAL DOCUMENT
AMENDING THE NATIONAL ELECTRICAL
CODE, 1984 EDITION" AS PART II OF
SAID CHAPTER, WHICH ADDS VARIOUS
PROVISIONS TO THE NATIONAL ELECTRICAL
CODE, 1984 EDITION; PROVIDING OTHER
MATTERS PROPERLY RELATING THERETO;
REPEALING ALL ORDINANCES OR PARTS
OF ORDINANCES IN CONFLICT HERewith;
AND PROVIDING PENALTIES FOR THE
VIOLATION HEREOF.

Sponsored by:
Councilman Al Levy
Summary:
Adopts the 1984 National Electrical Code, together with a supplemental document providing amendments thereof, deletions therefrom and additions thereto, as the City's Electrical Code.
The above and foregoing amended ordinance was first proposed and read by title to the City Council on the 4th day of December, 1985, and referred to the following committee composed of Councilmen Levy and Lurie for recommendation; thereafter, the said committee reported favorably on said amended ordinance on the 2nd day of January, 1986, which was a regular meeting of said City Council; that at said regular meeting the proposed ordinance

was read by title to the City Council as amended and adopted by the following vote:
VOTING "AYE"
Councilmen: Bunker, Levy, Lurie, Nolen and Mayor Briare
VOTING "NAY"
Councilmen: NONE
ABSENT: NONE
COPIES OF THE COMPLETE ORDINANCE ARE AVAILABLE FOR PUBLIC INFORMATION IN THE OFFICE OF THE CITY CLERK, 10th FLOOR, CITY HALL, 400 EAST STEWART AVENUE, LAS VEGAS, NEVADA.
PUB: January 7, 1986

SIGNED

George J. Vasconi
GEORGE J. VASCONI

Subscribed and sworn to before me
this 7th day of January, 1986

Marjorie E. Ouellette

NOTARY PUBLIC, IN AND FOR CLARK COUNTY, NEVADA



MARJORIE E. OUELLETTE

Notary Public - State of Nevada
CLARK COUNTY

My Appointment Expires Dec. 2, 1989



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