

BUILDING STANDARDS COMMISSION

2525 Natomas Park Drive, Suite 130
Sacramento, California 95833-2936
(916) 263-0916 FAX (916) 263-0959



June 27, 2012

Donna Heraty, Deputy City Clerk
Office of the City Clerk
City of Carlsbad
1200 Carlsbad Village Drive
Carlsbad, CA 92008-1949

Dear Ms. Heraty:

This letter is to acknowledge receipt on June 25, 2012 of the City of Carlsbad submittal pertaining to Ordinance No. CS-184 with findings and is acceptable for filing. Your filing attests to your understanding that according to Health and Safety Code §17958.7 no modification or change to the California Building Standards Code shall become effective or operative for any purpose until the findings and the modifications or changes have been filed with the California Building Standards Commission (the Commission).

This letter attests only to the filing of these local modifications with the Commission, which is not authorized by law to determine the merit of the filing. As a reminder, local modifications are specific to a particular edition of the Code. They must be readopted and filed with the Commission in order to remain in effect when the next triennial edition of the Code is published.

In addition, should you receive Fire Protection District ordinances for ratification, it is required to submit the ratified ordinances to the Department of Housing and Community Development [Health and Safety Code §13869.7(c)], attention State Housing Law Program Manager, rather than the Commission. Likewise, ordinances containing energy efficiency standards may require approval from the California Energy Commission pursuant to Public Resources Code §25402.1(h)(2).

If you have any questions or need any further information, you may contact me at (916) 263-0916.

Sincerely,


Enrique M. Rodriguez
Associate Construction Analyst

cc: Chron
Local Filings



CITY OF
CARLSBAD

Office of the City Clerk

www.carlsbadca.gov

June 21, 2012.

California Building Standards Commission
2525 Natomas Park Drive
Suite 130
Sacramento, CA 95833

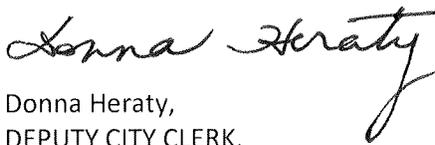
TO WHOM IT MAY CONCERN:

We hereby give notice of a modification to the 2010 edition of the California Fire Code as provided by the California Health & Safety Code § 17958.5 and § 17958.7.

A copy of the City of Carlsbad Ordinance No. CS-184 is enclosed.

Please contact us if you require anything further.

Sincerely,


Donna Heraty,
DEPUTY CITY CLERK.

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CITY OF CARLSBAD
CALIFORNIA
CALIFORNIA BUILDING
STANDARDS COMMISSION



Records Management

1200 Carlsbad Village Drive, Carlsbad, CA 92008-1949 T 760-434-2808



1 WHEREAS, proper emergency response to this facility requires
2 adequate circulation and access; and

3 WHEREAS, the Carlsbad Fire Chief has determined pursuant to Title
4 24 California Code of Regulations 503.2.2 that such adequate access and circulation
5 requires a minimum width of 50-feet for access to the bottom of the bowl where the
6 proposed power plant is to be located and a complete circular rim road around the
7 top of this bowl to allow adequate access in staging of emergency vehicles; and

8 WHEREAS, the Revised Presiding Member's Proposed Decision,
9 dated March 28, 2012 recommends not to follow these standards; and

10 WHEREAS, that report recommends a incomplete rim road and an
11 inadequate access width of 28-feet; and

12 WHEREAS, the report states:

13 "Given the Energy Commissions exclusive jurisdiction over the
14 permitting and regulation of thermal power plants (such as the proposed
15 power plant), the final determination of the appropriate access width is
16 ours to make as we must both set the development standards for the
17 project and then enforce them. While the opinions of the local fire
18 officials who will provide the fire protection services are an important
19 consideration, they are not dispositive. After considering those
20 opinions, along with those of other experts, we decide that a 28-foot
21 minimum road width is appropriate for this project. The local fire
22 department will continue to provide fire service to the project; ours is
23 planning and regulatory role." (at section 6.4-11)

24 WHEREAS, this will be the only power plant located in a bowl,
25 approximately 30-feet beneath ground elevation and this condition represents a
26 topographical condition like no other elsewhere in the City of Carlsbad; and

27 WHEREAS, the proposed plant is located in a highly constrained,
28 constricted and impacted area unlike any other area in the City of Carlsbad and such
location represents a unique topographical condition that must be considered when
amending the Fire Code; and

1 WHEREAS, the prevailing winds are likely to cause a major disruption
2 to traffic along Interstate 5 in the event of an explosion or other major event; and

3 WHEREAS, it is the City Council's duty to ensure that its citizens, its
4 fire department, its visitors, tourists and residents are afforded the highest level of
5 care while at the same time recognizing the need for adequate fire protection, and
6 the City Council, having engaged in this balancing test has determined that local
7 conditions require the Carlsbad Fire Department to respond to such emergencies in a
8 secondary role and to assess the situation on an incident-by-incident basis.
9

10 The City Council of the City of Carlsbad ordains as follows:

11 SECTION I: That Chapter 17.04.340 of the Carlsbad Municipal Code
12 shall be amended to read as follows:
13

14 **17.04.340 - Section 505.5 Response map updates—Amended.**

15 Chapter 5, Section 505.5 of the 2010 California Fire Code is amended to
16 add the following:

17 Any new development, which necessitates updating of emergency
18 response maps by virtue of new structures, hydrants, roadways or similar
19 features, shall be required to provide map updates in a format approved by
20 the fire department. The responsible party shall be charged a reasonable
21 fee for updating the City emergency response maps.

22 For any new power plant to be developed in the City of Carlsbad located
23 west of Interstate 5, north of Cannon Road, south of Agua Hedionda
24 Lagoon and east of the NCTD right of way, that does not conform to the
25 requirements of the Carlsbad Fire Chief pursuant to Title 24 California Code
26 of Regulations, § 503.2.2, response to any emergency shall be provided
27 primarily by the California Energy Commission or the power plant applicant
28 or landowner, as appropriate, and the Carlsbad Fire Department shall be in
a secondary response position and shall provide emergency responses as
appropriate on an incident-by-incident basis.

 The response maps for any emergency response to this location shall be
modified to indicate that the California Energy Commission or the power

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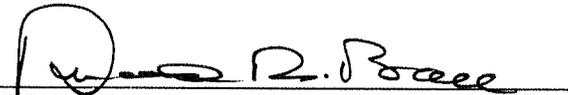
EFFECTIVE DATE: This ordinance shall be effective thirty days after its adoption, and the City Clerk shall certify to the adoption of this ordinance and cause the full text of the ordinance or a summary of the ordinance prepared by the City Attorney to be published at least once in a newspaper of general circulation in the City of Carlsbad within fifteen days after its adoption.

INTRODUCED AND FIRST READ at a regular meeting of the Carlsbad City Council on the 22nd day of May, 2012, and thereafter.

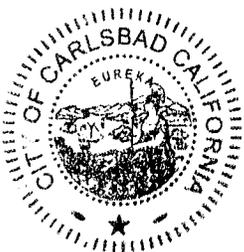
PASSED, APPROVED AND ADOPTED at a Regular Meeting of the City Council of the City of Carlsbad on the 5th day of June, 2012, by the following vote to wit:

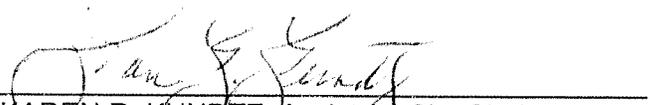
- AYES: Council Members Hall, Kulchin, Blackburn, Douglas and Packard.
- NOES: None.
- ABSENT: None.
- ABSTAIN: None.

APPROVED AS TO FORM AND LEGALITY


RONALD R. BALL, City Attorney
6.6.12.


MATT HALL, Mayor



ATTEST:

KAREN R. KUNDTZ, Assistant City Clerk

(SEAL)

BUILDING STANDARDS COMMISSION

2525 Natomas Park Drive, Suite 130
Sacramento, California 95833-2936
(916) 263-0916 FAX (916) 263-0959



May 17, 2011

Will Foss, Building Official
Community & Economic Development
City of Carlsbad
1635 Faraday Avenue
Carlsbad, CA 92008-7314

Dear Mr. Foss:

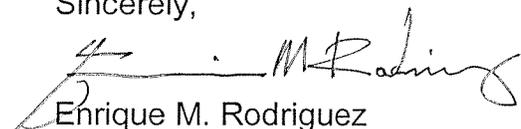
This letter is to acknowledge receipt on May 2, 2011 of the City of Carlsbad submittal pertaining to Ordinance Nos. C.S. 126 through 134 with findings and is acceptable for filing. Your filing attests to your understanding that according to Health and Safety Code Section 17958.7 no modification or change to the California Building Standards Code shall become effective or operative for any purpose until the finding and the modification or change have been filed with the California Building Standards Commission (the Commission).

This letter attests only to the filing of these local modifications with the Commission, which is not authorized by law to determine the merit of the filing.

As a reminder, local modifications are specific to a particular edition of the Code. They must be readopted and filed with the Commission in order to remain in effect when the next triennial edition of the Code is published. In addition, should you receive Fire Protection District ordinances for ratification, it is required to submit the ratified ordinances to the Department of Housing and Community Development [H&SC Section 13869.7(c)], attention State Housing Law Program Manager, rather than the Commission.

If you have any questions or need any further information, you may contact me at (916) 263-0916.

Sincerely,


Enrique M. Rodriguez
Associate Construction Analyst

cc: Chron
Local Filings



CITY OF
CARLSBAD

Community & Economic Development

www.carlsbadca.gov

April 27, 2011

Building Standards Commission
2525 Natomas Park Drive Suite 130
Sacramento CA 95833

RE: FILING OF LOCAL ADOPTION OF THE 2010 CALIFORNIA BUILDING CODES

Enclosed please find signed copies of the Agenda Bill and Ordinance that was adopted by the Carlsbad City Council on April 22, 2011 at a regular meeting of the City Council. These copies are being sent based upon Section 1.1.8.1 of the California Building Code. The findings associated with the modifications therein are part of Ordinance CS-126 through CS-134.

Thank you for retaining copies at the California Building Standards Commission. If you have any question, please feel free to contact me at 760-602-2716.

Sincerely,

Will Foss
Building Official
City of Carlsbad
1635 Faraday Ave
Carlsbad CA 92008
(760) 602-2716
(760) 602-8560 (fax)

Enc.

WF:jh

RECEIVED
MAY - 2 11: 01
CALIFORNIA BUILDING
STANDARDS COMMISSION



Building Division

1635 Faraday Avenue, Carlsbad, CA 92008-7314 T 760-602-2700 F 760-602-8560





CITY OF CARLSBAD – AGENDA BILL

10

| | | |
|---------------------|--|---------------------------------|
| AB# 20,490 | INTRODUCING THE 2010 CALIFORNIA FIRE CODE, THE 2010 CALIFORNIA BUILDING CODE, THE 2010 CALIFORNIA MECHANICAL CODE, THE 2010 CALIFORNIA ELECTRICAL CODE, THE 2010 CALIFORNIA PLUMBING CODE, THE 2009 UNIFORM SOLAR CODE, THE 2010 CALIFORNIA RESIDENTIAL CODE, THE 2010 CALIFORNIA GREEN BUILDING STANDARDS CODE AND THE 2010 CALIFORNIA ENERGY CODE. | DEPT. DIRECTOR <i>CC</i> |
| MTG. 3/22/11 | | CITY ATTORNEY <i>RK</i> |
| DEPT. CED | | CITY MANAGER <i>CC</i> |

RECOMMENDED ACTION:

That the City Council hold a public hearing and **INTRODUCE** Ordinance No. CS-126, amending Title 17, Chapter 17.04, Fire Prevention Code; Ordinance No. CS-127, amending Title 18, Chapter 18.04, Building Code; Ordinance No. CS-128, amending Title 18, Chapter 18.08, Mechanical Code; Ordinance No. CS-129, amending Title 18, Chapter 18.12, Electrical Code; Ordinance No. CS-130 amending Title 18, Chapter 18.16, Plumbing Code; Ordinance No. CS-131 amending Title 18, Chapter 18.18, Solar Energy Code; Ordinance No. CS-132, amending Title 18, by adding Chapter 18.20, Residential Code; Ordinance No. CS-133, amending Title 18, by adding Chapter 18.21, Green Building Standards Code; Ordinance No. CS-134, amending Title 18, Chapter 18.30, Energy Conservation Regulations; of the Carlsbad Municipal Code, to adopt by reference the 2010 California Fire Code, the 2010 California Building Code, the 2010 California Mechanical Code, the 2010 California Electrical Code, the 2010 California Plumbing Code, the 2009 Uniform Solar Code, the 2010 California Residential Code, the 2010 California Green Building Standards Code and the 2010 California Energy Code.

ITEM EXPLANATION:

Staff is proposing to adopt the 2010 California Fire Code, the 2010 California Building Code, the 2010 California Mechanical Code, the 2010 California Electrical Code, the 2010 California Plumbing Code, the 2009 Uniform Solar Code, the 2010 California Residential Code, the 2010 California Green Building Standards Code and the 2010 California Energy Code into the Carlsbad Municipal Code. These codes are adopted by the State Building Standards Commission and are being enforced statewide and became effective January 1, 2011. Local jurisdictions are required to enforce these regulations as the minimum standards for construction throughout the State. The City Council action will bring the city into compliance with the State requirements.

DEPARTMENT CONTACT: Will Foss 760-602-2716 will.foss@carlsbadca.gov
Chris Heiser 760-602-4661 chris.heiser@carlsbadca.gov

| | | | |
|----------------------------------|--|----------------------------|--------------------------|
| FOR CITY CLERKS USE ONLY. | | | |
| COUNCIL ACTION: | APPROVED <input checked="" type="checkbox"/> | CONTINUED TO DATE SPECIFIC | <input type="checkbox"/> |
| | DENIED <input type="checkbox"/> | CONTINUED TO DATE UNKNOWN | <input type="checkbox"/> |
| | CONTINUED <input type="checkbox"/> | RETURNED TO STAFF | <input type="checkbox"/> |
| | WITHDRAWN <input type="checkbox"/> | OTHER – SEE MINUTES | <input type="checkbox"/> |
| | AMENDED <input type="checkbox"/> | | |

The Green Building Code and California Residential Code are new parts of the California Building Code and will be adopted for the first time in the City of Carlsbad.

Local amendments are also proposed with this adoption. Amendments to the California construction codes are necessary due to the city's unique local climatic, geological, or topographical conditions or infrastructure limitations. These local amendments include carry over code provisions adopted in previous years by City Council and new amendments deemed necessary due to local conditions and to provide uniformity between the Municipal, Green and Residential codes. A summary of the city's approach to this code adoption and the proposed significant changes or additions to the code are included in this agenda bill as Attachment 11.

No fee increase to building, plumbing, electrical, or mechanical permits are proposed by any of these actions. Building, Mechanical, Electrical and Plumbing permit fees will be adopted in a separate master fee resolution.

FISCAL IMPACT:

No fee modifications are proposed by these ordinances. Building and other permit fees will be reviewed as part of the Finance Departments 2011-2012 master fee schedule and will become effective September 1, 2011.

ENVIRONMENTAL IMPACT:

The City Planner has determined that these activities are categorically exempt from CEQA review pursuant to Section 15309 of the CEQA guidelines.

EXHIBITS:

1. Ordinance No. CS-126, adopting the California Fire Code, 2010 Edition
2. Ordinance No. CS-127, adopting the California Building Code, 2010 Edition
3. Ordinance No. CS-128, adopting the California Mechanical Code, 2010 Edition
4. Ordinance No. CS-129, adopting the California Electrical Code, 2010 Edition
5. Ordinance No. CS-130, adopting the California Plumbing Code, 2010 Edition
6. Ordinance No. CS-131, adopting the Uniform Solar Code, 2009 Edition
7. Ordinance No. CS-132, adopting the California Residential Code, 2010 Edition
8. Ordinance No. CS-133, adopting the California Green Building Standards Code 2010 Edition
9. Ordinance No. CS-134, adopting the California Energy Code, 2010 Edition
10. Strikeout / highlight version of CMC Amendments: 17.04, 18.04, 18.08, 18.12, 18.16, 18.18, 18.20, 18.21, 18.30
11. 2010 California Building and Fire Code Adoption – Summary of Changes

ORDINANCE NO. CS-126

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CARLSBAD, CALIFORNIA, AMENDING CARLSBAD MUNICIPAL CODE, TITLE 17, CHAPTER 17.04, FIRE PREVENTION CODE TO ADOPT THE 2010 EDITION OF THE CALIFORNIA FIRE CODE.

WHEREAS, Health & Safety Code Section 17958 mandates that the City Council of the City of Carlsbad shall adopt ordinances or regulations imposing the same requirements as are contained in the regulations adopted by the State pursuant to Health & Safety Code, Section 17922; and

WHEREAS, the State of California is mandated by Health & Safety Code Section 17922 to impose the same requirements as are contained in the 2010 California Fire Code, hereinafter referred to collectively as the Fire Code; and,

WHEREAS, the State of California has adopted and published California Code of Regulations Title 24, Part 9 as the California Fire Code, effective January 1, 2011.

WHEREAS, on January 1, 2011, all existing fire code adoptions and amendments of local agencies automatically reverted to the new State code unless new local adoptions and local amendments are made.

WHEREAS, the State of California is mandated by Health & Safety Code section 17922 to impose the same requirements as are contained in the 2010 California Fire Code, and together with the City Council of the City of Carlsbad local amendments, these shall be the Carlsbad Fire Department Fire Code; and

WHEREAS, code amendments adopted by the State of California shall take precedence over the 2010 California Fire Code language. The 2010 California Fire Code language shall be used for those code sections not adopted by the State; and

WHEREAS, local amendments adopted by the City Council of the City of Carlsbad shall take precedence over the 2010 California Fire Code; and

WHEREAS, Health & Safety Code Section 17958.5 permits the City Council of the City of Carlsbad to make local amendments to the Code as are reasonably necessary because of local conditions; and,

1 WHEREAS, Health & Safety Code Section 17958.7 requires that the City Council of the
2 City of Carlsbad before making any local amendments pursuant to Section 17958.5 make
3 express findings that such local amendments are needed due to climatic, geographic, or
4 topographic conditions; and,

5 WHEREAS, the City Council of the City of Carlsbad, California does herewith find that
6 the City of Carlsbad has certain climatic, geologic, and topographical features that can have a
7 deleterious effect on emergency services such as fire protection and emergency medical
8 services; and,

9 WHEREAS, the City Council of the City of Carlsbad, California finds that the local
10 amendments to the 2010 California Fire Code are reasonably necessary because of the local
11 climatic, geological, and topographical conditions.

12 WHEREAS, this finding recognizes regional geologic conditions and the likelihood of
13 numerous structure fires following a greater magnitude seismic event. It also considered the
14 limited ability of local emergency services to provide fire protection due to extraordinary service
15 demands following such events.

16 WHEREAS, further basis for the finding is concern for local topographic
17 conditions and irregular elevations along primary travel routes throughout the City. These
18 conditions impede the rapid deployment and effectiveness of emergency resources.

19 WHEREAS, certain amendments to the 2010 California Fire Code serve to mitigate to
20 the extent possible said deleterious effects that climatic and topographical conditions within the
21 City can create an extreme fire danger and modification to the California Fire Code is necessary
22 for community health and safety:

23 WHEREAS, Section 50022.1 through 50022.10, inclusive, of the Government Code and
24 Section 13869 of the Health and Safety Code, provide authority for the adoption by reference of
25 codes, or portion of such codes:

26 THEREFORE, the City Council of the City of Carlsbad, California, does ordain as
27 follows:
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SECTION 1: That Chapter 17.04 of the Carlsbad Municipal Code is amended to read as follows:

**Chapter 17.04
FIRE PREVENTION CODE**

Sections:

- 17.04.010 Adoption.
- 17.04.020 Chapter 1, Division II, Part 1, Section 101.5 Validity — Amended.
- 17.04.030 Chapter 1, Division II, Part 1, Section 102.5 Application of California Residential Code — Amended.
- 17.04.040 Chapter 1, Division II, Part 2, Section 109.3 Violation penalties — Amended.
- 17.04.050 Chapter 1, Division II, Part 2, Section 111.4 Failure to comply — Amended.
- 17.04.060 Recovery of costs — Amended.
- 17.04.070 Section 201.3 Terms defined in other codes — Amended.
- 17.04.080 Section 202 Definitions - Fire hazard — Amended.
- 17.04.090 Section 202 Definitions - High Fire Hazard Severity Zone— Amended.
- 17.04.100 Section 202 Definitions - High-rise building — Amended.
- 17.04.110 Section 202 Definitions - Ignition-resistant material — Amended.
- 17.04.130 Section 202 Definitions - Projections — Amended.
- 17.04.140 Section 202 Definitions - Vegetation — Amended.
- 17.04.150 Section 304.1.2 Definitions - Vegetation — Amended.
- 17.04.160 Section 307.5.1 Adult supervision at open fires — Amended.
- 17.04.170 Section 312.2 (5) Posts — Amended.
- 17.04.180 Section 316.3 Pitfalls — Amended.
- 17.04.190 Section 316 General storage of firewood — Amended.
- 17.04.200 Section 319 Maintenance of Fire Suppression Zones — Amended.
- 17.04.210 Section 503.2.1 Dimensions—Amended.
- 17.04.220 Section 503.2.1.1 Minimum street width in fire hazard zones — Amended.
- 17.04.230 Section 503.2.1.2 Measurement of street width — Amended.
- 17.04.240 Section 503.2.1.3 Measurement of street width - Single Entry Development — Amended.
- 17.04.250 Section 503.2.3 Surface — Amended.
- 17.04.260 Section 503.2.4 Turning radius — Amended.
- 17.04.270 Section 503.2.7 Grade — Amended.
- 17.04.280 Section 503.3.1 Marking of fire apparatus access roads — Amended.
- 17.04.290 Section 503.4.1 Fire access roadway design features — Amended.
- 17.04.300 Section 503.6.1 Gates — Amended.
- 17.04.310 Section 505.1 Street numbers — Amended.
- 17.04.320 Section 505.3 Easement address signs — Amended.
- 17.04.330 Section 505.4 Map / Directory — Amended.
- 17.04.340 Section 505.5 Response map updates — Amended.
- 17.04.350 Section 506 Fire Service Features — Amended.
- 17.04.360 Section 507.3 Fire flow — Amended.
- 17.04.370 Section 603.6.6 Spark arrestors — Amended.
- 17.04.380 Section 603.8 Residential incinerators — Amended.

- 1 17.04.390 Section 605.11 Building Services and Systems — Amended.
- 2 17.04.400 Section 901.4.5 Fire department connections — Amended.
- 3 17.04.410 Section 903.2 Automatic fire extinguishing systems — Amended.
- 4 17.04.420 Section 903.2.1.1(1) Group A-1 — Amended.
- 5 17.04.430 Section 903.2.1.3 (1) and (4) Group A-3 — Amended.
- 6 17.04.440 Section 903.2.1.4 (1) Group A-4 — Amended.
- 7 17.04.450 Section 903.2.3 (1) and (4) Group E — Amended.
- 8 17.04.460 Section 903.2.7 (1) and (3) Group M — Amended.
- 9 17.04.470 Section 903.2.9 (1) and (4) Group S-1 — Amended.
- 10 17.04.490 Section 903.3.3 Obstructed locations — Amended.
- 11 17.04.500 Section 903.4 Sprinkler System Monitoring and Alarms — Amended.
- 12 17.04.510 Section 907.2.11.4 Power Sources (Smoke Alarms) — Amended.
- 13 17.04.520 Section 907.2.11.5 Smoke Alarms — Amended.
- 14 17.04.530 Section 1407 Explosive Materials — Amended.
- 15 17.04.540 Section 1418 Construction site fuel modification — Amended.
- 16 17.04.550 Section 2201.1.1 Revised scope of Chapter 22, Sections 2205, 2206
and 2210 — Amended.
- 17 17.04.560 Table 2306.2 Footnote J — Amended.
- 18 17.04.570 Section 3301.1.1 Prohibiting storage of explosives — Amended.
- 19 17.04.580 Section 3301.1.2 Prohibiting the possession, sales and use of
fireworks — Amended.
- 20 17.04.590 Section 3404.2.9.5.1—Prohibited/restricted locations for the storage
of flammable and combustible liquids in above-ground tanks —
Amended.
- 21 17.04.600 Section 3405.2.4 Class I, II and III liquids — Amended.
- 22 17.04.610 Section 3804.2 Maximum capacity for storage of liquefied petroleum
gas (LPG) — Amended.
- 23 17.04.620 Section 3807.5 Securing tanks to ground (LPG) — Amended.
- 24 17.04.630 Appendix B Section B105; Subsection B105.1 Fire-Flow
Requirements for Buildings — Amended.
- 25 17.04.640 Appendix B Section B105; Subsection B105.2 Fire-Flow
Requirements for Buildings — Amended.
- 26 17.04.650 Appendix D Section D106; Subsection D106.1 Multiple-Family
Residential Developments — Amended.
- 27 17.04.660 Appendix D Section D106; Subsection D106.1-Exception Multiple-
Family Residential Developments — Amended.

28 17.04.010 Adoption.

29 The City of Carlsbad adopts by reference the 2010 Edition of the California Fire Code, two
30 copies of which are on file in the office of the City Clerk, known as California Code of
31 Regulations, Title 24, Part 9, except for the following amendments thereto. The City amends the
32 provisions of the 2010 California Fire Code to include the requirements of the 2010 Edition of
33 the International Fire Code including Appendix Chapters 4 and Appendices B (as amended),
34 BB, C, D (as amended), F, G, H, I and J as published by the International Code Council for
35 those occupancies not subject to the 2010 California Fire Code. As adopted and amended
36 herein, the 2010 California Fire Code becomes the fire code of the City of Carlsbad.

37 17.04.020 Chapter 1, Division II, Part 1, Section 101.5 Validity—Amended.

38 Chapter 1, Division II, Part 1, Section 101.5 of the 2010 California Fire Code is amended
39 to read as follows:

6

1 The City Council of the City of Carlsbad hereby declares that should any section, paragraph,
2 sentence or word of this Ordinance or of the City of Carlsbad Municipal Code hereby adopted
3 be declared for any reason to be invalid, it is the intent of the City Council that it would have
passed all other portions of this Ordinance independently of the elimination here from of any
such portion as may be declared invalid.

4 **17.04.030 Chapter 1, Division II, Part 1, Section 102.5 Application of California**
5 **Residential Code — Amended.**

6 Chapter 1, Division II, Part 1, Section 102.5 of the 2010 California Fire Code is amended
to read as follows:

7 Where structures are designed and constructed in accordance with the *California*
8 *Residential Code*, the provisions of this code shall apply as follows:

- 9 1. Construction and designed provisions: Provisions of this code pertaining to the exterior of
10 the structure shall apply including, but not limited to, premises identification, fire apparatus
access, water supplies, and Section 903.2. Where interior or exterior systems or devices are
11 installed, construction permits required by Section 105.7 of this code shall also apply.
- 12 2. Administrative, operational, and maintenance provisions: all such provisions of this code
shall apply.

13 **17.04.040 Chapter 1, Division II, Part 2, Section 109.3 Violation penalties — Amended.**

14 Chapter 1, Division II, Section 109.3 of the 2010 California Fire Code is amended to read as
follows:

15 Any person who violates any of the provisions of this code hereby adopted or fails to comply
16 therewith, or who violates or fails to comply with any order made there-under, or who builds in
violation of any detailed statement or specification or plans submitted and approved there-
17 under, or any certificate or permit issued there-under, and from which no timely appeal has
been taken, or who fails to comply with such an order as affirmed or modified by the City
18 Attorney of the City of Carlsbad or by a court of competent jurisdiction within the time fixed
herein, shall severally for each and every violation and noncompliance respectively, be guilty of
19 a misdemeanor, punishable by a fine not exceeding \$1,000 or by imprisonment in County Jail
not exceeding six months, or both.

20 The imposition of one penalty of any violation shall not excuse the violation or permit it to
21 continue; and all such persons shall be required to correct or remedy such violations or defects
within a reasonable time; and when not otherwise specified, each day that prohibited conditions
22 are maintained shall constitute a separate offense. The application of the above penalty shall
not be held to prevent the enforced removal of prohibited conditions.

23 **17.04.050 Chapter 1, Division II, Part 2, Section 111.4 Failure to comply—Amended.**

24 Chapter 1, Division II, Section 111.4 of the 2010 California Fire Code is amended to read
as follows:

25 Any person, who continues any work after having been served with a stop work order, except
26 such work as that the person is directed to perform to remove a violation or unsafe condition,
shall be liable for a fine of not less than \$250 or more than \$1,000.

1 **17.04.060 Recovery of costs - Amended.**

2 The City shall be entitled to recover the cost of emergency services as described in subsections
3 1 through 5 below. Service costs shall be computed by the fire department under the direction of
4 the city finance department and shall include the costs of personnel, equipment facilities,
5 materials and other external resources.

- 6 1. Any person or corporation who allows a hazard to exist on property under control of that
7 person or corporation, after having been ordered by the fire department or other city
8 department to abate that hazard, is liable for the cost of services provided by the fire
9 department should an emergency arise as a result of said unabated hazard.
- 10 2. Any person or corporation whose negligence causes an incident to occur on any public or
11 private street, driveway or highway, which, for the purposes of life, property or environmental
12 protection, places a service demand on the city fire department resources beyond the scope
13 of routine service delivery, shall be liable for all costs associated with that service demand.
- 14 3. Any person or corporation responsible for property equipped with fire protection or detection
15 devices which, due to malfunction, improper manipulation or negligent operation causes a
16 needless response by the fire department to the property shall, for a period of twelve months
17 after written notification by the fire prevention bureau, be liable for all future costs associated
18 with each subsequent needless response caused by those devices.
- 19 4. Any person or corporation who conducts unlawful activity which results in fire, explosion,
20 chemical release or any other incident to which the fire department responds for the purpose
21 of performing services necessary for the protection of life, property or the environment, shall
22 be liable for the costs associated with the delivery of those services.
- 23 5. When, in the interest of public safety, the fire chief, assigns fire department employees as
24 standby personnel at any event, or upon any premise, the person or corporation responsible
25 for the event or premises shall reimburse the fire department for all costs associated with the
26 standby services.

27 **17.04.070 Section 201.3 Terms defined in other codes—Amended.**

28 Section 201.3 of the 2010 California Fire Code is amended to read as follows:

Where terms are not defined in this code and are defined in the California Building Code, California Mechanical Code, California Plumbing Code, California Residential Code and the International Urban-Wildland Interface Code, such terms shall have the meanings ascribed to them as in those codes.

17.04.080 Section 202 Definitions - Fire hazard—Amended.

Section 202 of the 2010 California Fire Code is amended to read as follows:

"Fire hazard" is any thing or act that increases or could cause an increase of the hazard or menace of fire to a greater degree than customarily recognized as normal by persons in the public service regularly engaged in preventing, suppressing or extinguishing fire or any thing or act which could obstruct, delay, hinder or interfere with the operations of the fire department or the egress of occupants in the event of fire.

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1 **17.04.090 Section 202 Definitions - High Fire Hazard Severity Zone —Amended.**

2 Section 202 of the 2010 California Fire Code is amended to read as follows:

3 "High Fire Hazard Severity Zone" is any geographic area designated in accordance with
4 California Government Code § 51178, which contains the type and condition of vegetation,
5 topography, weather and structure density which potentially increases the possibility of wildland
6 conflagrations.

7 **17.04.100 Section 202 Definitions – High-rise building — Amended.**

8 Section 202 of the 2010 California Fire Code is amended to read as follows:

9 "High-rise building," as used in this code: "Existing high-rise building" means a high-rise
10 building, the construction of which is commenced or completed prior to July 1, 1974. "High-rise
11 building" means every building of any type of construction or occupancy having floors used for
12 human occupancy located more than 55 feet above the lowest floor level having building access
13 (see California Building Code, Section 403.1.2), except buildings used as hospitals as defined in
14 Health and Safety Code Section 1250. "New high-rise building" means a high-rise building, the
15 construction of which is commenced on or after July 1, 1974.-

16 **17.04.110 - Section 202 Definitions – Ignition-resistant material—Amended.**

17 Section 202 of the 2010 California Fire Code is amended to read as follows:

18 "Ignition-resistant material" is defined as any product which, when tested in accordance with
19 ASTM E84 for a period of 30 minutes, shall have a flame spread of not over 25 feet, and show
20 no evidence of progressive combustion. In addition, the flame front shall not progress more than
21 10.5 feet (3,200 mm) beyond the centerline of the burner at any time during the test.

22 Materials shall pass the accelerated weathering test and be identified as Exterior type, in
23 accordance with ASTM D 2898 and ASTM D 3201.

24 All materials shall bear identification showing the fire performance rating thereof. That
25 identification shall be issued by ICC—ES or a testing facility recognized by the State Fire
26 Marshal having a service for inspection of materials at the factory.

27 Fire-Retardant-Treated Wood or noncombustible materials as defined in Section 202 shall
28 satisfy the intent of this section.

 The enforcing agency may use other definitions of "ignition-resistant material" that reflect wildfire
 exposure to building materials and/or their materials performance in resisting ignition.

17.04.130 Section 202 Definitions – Projections—Amended.

 Section 202 of the 2010 California Fire Code is amended to read as follows:

 "Projections" are defined as cornices, eave overhangs, exterior balconies and similar
 projections extending beyond the floor area. Projections shall conform to the requirements of
 Section 704.2 and Section 1406 of the California Building Code. Exterior egress balconies and
 exterior exit stairways shall also comply with Section 1014.5 and 1023.1 of the California
 Building Code, respectively. Projections shall not extend beyond the distance determined by
 the following two methods, whichever results in the lesser projection:

- 1 1. A point one-third the distance to the lot line from an assumed vertical plane located where
2 protected openings are required in accordance with California Building Code Section 704.8,
3 but not less than five feet from the lot line.
- 3 2. Group R-3, and Group U when used as accessory to Group R-3, shall be constructed not
4 less than five feet from any lot line without having a fire resistance rated exterior wall and
5 openings that are protected as set forth in Table 5-A of the California Building Code.

5 **17.04.140 Section 202 Definitions – Vegetation — Amended.**

6 Section 202 of the 2010 California Fire Code is amended to read as follows:

7 “Vegetation” means weeds, grass, vines or other organic (cellulose) growth that is capable of
8 being ignited and endangering property, and such vegetation shall be cut down and removed by
9 the owner or occupant of the premises. Vegetation clearance requirements in urban-wildland
10 interface areas shall be in accordance with City of Carlsbad standards.

10 **17.04.150 Section 304.1.2 Definitions – Vegetation — Amended.**

11 Chapter 3, Section 304.1.2 of the 2010 California Fire Code is amended to read as
12 follows:

12 “Vegetation” means weeds, grass, vines or other organic (cellulose) growth that is capable of
13 being ignited and endangering property, and such vegetation shall be cut down and removed by
14 the owner or occupant of the premises. Vegetation clearance requirements in urban-wildland
15 interface areas shall be in accordance with City of Carlsbad standards.

15 **17.04.160 Section 307.5.1 Adult supervision at open fires—Amended.**

16 Chapter 3 of the 2010 California Fire Code is amended to add Section 307.5.1 to read
17 as follows:

17 An adult must be present at all times to watch and tend outdoor fires.

18 **17.04.170 Section 312.2 (5) Posts— Amended.**

19 Chapter 3, Section 312.2(5) of the 2010 California Fire Code is amended to read as
20 follows:

21 Posts shall be located not less than five feet (152.5 mm) from the protected object.

22 **17.04.180 316.3 Pitfalls—Amended.**

23 Chapter 3, Section 316.3 of the 2010 California Fire Code is amended to read as
24 follows:

24 When pitfalls are installed in violation of this code, the California Penal Code shall be used for
25 penalties, and violations of this section.

26 **17.04.190 Section 318 General storage of firewood—Amended.**

27 Chapter 3, Section 318 of the 2010 California Fire Code is amended to add the
28 following:

1 Firewood shall not be stored in unenclosed spaces beneath buildings or structures, or on decks
2 or under eaves, canopies or other projections or overhangs. When required by the fire code
3 official, storage of firewood material stored in the defensible space shall be located a minimum
4 of 30 feet (9,144 mm) from structures and separated from the crown of trees by a minimum of
5 15 feet (4,572 mm), measured horizontally. Firewood and combustible materials not for
6 consumption on the premises shall be stored so as to not pose a hazard.

7 **17.04.200 Section 319 Maintenance of Fire Suppression Zones —Amended.**

8 Chapter 3, Section 319 of the 2010 California Fire Code is amended to add the
9 following:

10 Sec. 319.1 When required. An application for a development permit for any property located in a
11 wildfire risk area shall be required to have a Fire Protection Plan (FPP) approved by the fire
12 code official, as part of the approval process.

13 Section 319.2 Content. The FPP shall consider location, topography, geology, aspect,
14 combustible vegetation (fuel types), climatic conditions and fire history. The plan shall address
15 the following in terms of compliance with applicable codes and regulations including but not
16 limited to: water supply, primary access, secondary access, travel time to nearest serving fire
17 station, structural ignitability, structure set back, ignition-resistive building features, fire
18 protection systems and equipment, impacts to existing emergency services, defensible space
19 and vegetation management.

20 Section 319.4 Maintenance of defensible space: Any person owning, leasing, controlling,
21 operating or maintaining a building or structure required to establish a fuel modification zone
22 pursuant to City of Carlsbad development standards shall maintain the defensible space. The
23 Fire Authority Having Jurisdiction (FAHJ) may enter the property to determine if the person
24 responsible is complying with this section. The FAHJ may issue an order to the person
25 responsible for maintaining the defensible space directing the person to modify or remove non-
26 fire resistant vegetation from defensible space areas, remove leaves, needles and other dead
27 vegetative material from the roof of a building or structure, maintain trees as required by this
28 section or to take other action the FAHJ determines is necessary to comply with the intent of
29 this section.

30 Section 319.5 Responsibility: Persons owning, leasing, controlling, operating or maintaining
31 buildings or structures are responsible for maintenance of defensible spaces. Maintenance of
32 the defensible space shall be annually or as determined by the FAHJ and may include, but not
33 be limited to, the modification or removal of non-fire resistive vegetation and keeping leaves,
34 needles and other dead vegetative material regularly removed from roofs of buildings and
35 structures.

36 Section 319.6. Trees: Crowns of trees located within defensible space shall maintain a minimum
37 horizontal clearance of 10 feet for fire resistant trees and 30 feet for non-fire resistive trees.
38 Mature trees shall be pruned to remove limbs one-third the height or six feet, whichever is less,
39 above the ground surface adjacent to the trees. Dead wood and litter shall be regularly removed
40 from trees. Ornamental trees shall be limited to groupings of two to three trees with canopies for
41 each grouping separated horizontally as described in the International Wildland Urban Interface
42 Code (IWUIC).

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1 **17.04.210 Section 503.2.1 Dimensions—Amended.**

2 Chapter 5, Section 503.2.1 of the 2010 California Fire Code is amended to read as
3 follows:

4 Fire apparatus access roads shall have an unobstructed width of not less than 24 feet (7,315
5 mm) exclusive of shoulders, except for approved security gates in accordance with section
6 503.6 and an unobstructed vertical clearance of not less than 13.5 feet (4,115 mm).

6 **17.04.220 Section 503.2.1.1 Minimum street width in fire hazard zones— Amended.**

7 Chapter 5, Section 503.2.1.1 of the 2010 California Fire Code is amended to add the
8 following:

9 Public and private streets shall have a minimum unobstructed width of 28 foot clear travel way
10 where adjacent lots are located within designated Fire Hazard Zones/Fire Suppression Zone.

10 **17.04.230 Section 503.2.1.2 Measurement of street width— Amended.**

11 Chapter 5, Section 503.2.1.2 of the 2010 California Fire Code is amended to add the
12 following:

13 Street widths are to be measured from face-of-curb to face-of-curb on streets with curb and
14 gutter, and from flow-line to flow-line on streets with rolled curbs.

14 **17.04.240 Section 503.2.1.3 Measurement of street width—Single Entry Development
15 - Amended.**

16 Chapter 5, Section 503.2.1.3 of the 2010 California Fire Code is amended to read as
17 follows:

- 18 1. Single entry developments may be permitted with special approval of the Fire Code Official.
19 A 36 foot curb-to-curb residential street may be provided for a street that serves 24 or less
20 dwelling units. If adjacent lots contain any portion of a Fire Hazard Zone/Fire Suppression
21 Zone within the property line, a 42 foot curb-to-curb street is required.
- 22 2. With special approval of the Fire Code Official and the City Engineer, 40 foot curb-to-curb
23 residential street may serve 50 or less dwelling units. If adjacent lots contain any portion of a
24 Fire Hazard Zone/Fire Suppression Zone, a 42 foot curb-to-curb distance is required.
- 25 3. With approval of the Fire Code Official and the City Engineer, a four lane secondary arterial
26 with a raised median or major arterial may be allowed when all of the following conditions
27 are met:
 - 28 a. The length of street does not exceed one-half mile.
 - b. Traffic volume at entrance does not exceed 3,000 ADT.
 - c. All buildings are equipped with automatic fire sprinkler systems.
4. With approval of the Fire Code Official and City Engineer, a 52 foot wide curb-to-curb
 industrial street and may be allowed when all of the following conditions are met:
 - a. The length of street does not exceed one-half mile.

- b. Traffic volume at entrance does not exceed 3,000 ADT.
- c. All buildings are equipped with automatic fire sprinkler systems.

17.04.250 Section 503.2.3 Surface— Amended.

Section 503.2.3 of the 2010 California Fire Code is amended to read as follows:

Fire apparatus access roads shall be designed and maintained to support not less than 75,000 lbs. (unless authorized by the *Fire Code Official*) and shall be provided with an approved paved surface so as to provide all-weather driving capabilities.

17.04.260 - Section 503.2.4 Turning radius— Amended.

Section 503.2.4 of the 2010 California Fire Code is amended to read as follows:

The inside turning radius for an access road shall be 28 feet or greater with a five foot back of curb clearance for bumper overhang. The outside turning radius for an access road shall be a minimum of 46 feet. California Department of Transportation Highway Design Manual, Figure 404.5F shall be utilized.

17.04.270 Section 503.2.7 Grade—Amended.

Section 503.2.7 of the 2010 California Fire Code is amended to read as follows:

The gradient for a fire apparatus access roadway shall not exceed 10 percent (5.7 degrees). The grade may be increased to a maximum of 15 percent (8.5 degrees) for approved lengths of access roadways when all structures served by the access road are protected by automatic fire sprinkler systems. Cross slope shall not be greater than two percent for paved access roadways. Grades exceeding 10 percent (incline or decline) shall not be permitted without mitigation.

Minimal mitigation shall be the installation of fire sprinkler systems and a surface of Portland cement concrete (PCC), with a deep broom finish perpendicular to the direction of travel, or equivalent, to enhance traction.

The Fire Code Official may require additional mitigation measures where deemed appropriate. The angle of departure and angle of approach of a fire access roadway shall not exceed 12 percent (7 degrees) or as approved by the Fire Code Official.

17.04.280 Section 503.3.1 Marking of fire apparatus access roads — Amended.

Section 503.1 of the 2010 California Fire Code is amended to add the following:

When required by the Fire Code Official, one or more of the following methods shall be used to identify fire apparatus access roads and prohibit their obstruction:

1. The entire length of the road shall be marked by approved signs posted at intervals no greater than 100 feet, which identify the road as a "Fire lane" and state the prohibition of parking therein. The sign shall also warn that vehicles in violation are subject to citation or removal. Such signs shall be posted in a permanent manner at a height no greater than nine feet and no less than seven feet; or,

- 1 2. Standard curbs bordering fire access roads shall have the words "NO PARKING FIRE
2 LANE" painted upon their horizontal and vertical surfaces at intervals of not more than 25
3 feet. Letters shall be of block style, minimum five inches in height with a stroke of not less
4 than three-fourths inch, and shall be white on a red background. The background shall
5 extend at least six inches beyond the first and last letters of the text; or,
6
- 7 3. A monument type sign may be placed at the entrance to a private street which provides
8 information as stated in sub-section 1 above, with additional wording necessary to inform
9 approaching vehicles of parking restrictions. Such signs must be approved by the Police
10 Department and the Fire Code Official prior to installation.

11 **17.04.290 Section 503.4.1 Fire access roadway design features—Amended.**

12 Chapter 5, Section 503.4.1 of the 2010 California Fire Code is amended to add the
13 following:

14 Roadway design features (speed bumps, speed humps, speed control dips, etc.) which may
15 interfere with emergency apparatus response times shall not be installed on fire access
16 roadways, unless they meet design criteria approved by the Fire Code Official.

17 **17.04.300 Section 503.6.1 Gates —Amended.**

18 Chapter 5, Section 503.6.1 of the 2010 California Fire Code is amended to add the
19 following:

20 All gates or other structures or devices which could obstruct fire access roadways or otherwise
21 hinder emergency operations are prohibited unless they meet standards approved by the Fire
22 Code Official, and receive plan approval by the Fire Code Official. All automatic gates across
23 fire access roadways and driveways shall be equipped with an approved emergency key-
24 operated switch which overrides all command functions and opens the gate(s). Gates accessing
25 more than four residences or residential lots, or gates accessing hazardous, institutional,
26 educational or assembly occupancy group structures, shall also be equipped with approved
27 emergency traffic control-activating strobe light sensor(s), or other devices approved by the Fire
28 Code Official, which will activate the gate on the approach of emergency apparatus and shall be
provided with a battery back-up or manual mechanical disconnect in case of power failure.

All automatic gates accessing more than four residences or residential lots must meet fire
department policies deemed necessary by the Fire Code Official for rapid, reliable access. All
gates providing access from a road to a driveway shall be located a minimum of 30 feet from the
nearest edge of the roadway and the driveway width shall be 36 feet wide at the entrance on
roadways of 24 feet or less of the traffic lane(s) serving the gate.

Automatic gates serving more than one dwelling or residential lot in existence at the time of
adoption of this Ordinance are required to install an approved emergency key-operated switch,
or other mechanism approved by the Fire Code Official, at an approved location, which
overrides all command functions and opens the gate(s). Property owners must comply with this
requirement within 90 days of written notice to comply.

Where this section requires an approved key-operated switch, it shall be dual keyed or dual
switches shall be provided to facilitate access by law enforcement personnel. Electric gate
openers, where provided, shall be listed in accordance with UL 325. Gates intended for
automatic operation shall be designed, constructed and installed to comply with the
requirements of ASTM F2200.

1 School grounds may be fenced and gates therein may be equipped with locks, provided that
2 safe dispersal areas, based on three square feet per occupant, are located between the school
3 and the fence. Such required safe dispersal areas shall be located at least 50 feet from school
4 buildings. Every public and private school shall conform to Education Code section 32020,
5 which states:

6 The governing board of every public school district and the governing authority of every private
7 school, which maintains any building used for the instruction or housing of school pupils on land
8 entirely enclosed (except for building walls) by fences or walls, shall, through the cooperation of
9 local law enforcement and fire protection agencies having jurisdiction of the area, provide for the
10 erection of gates in these fences or walls.

11 The gates shall be of sufficient size to permit the entrance of ambulances, police equipment and
12 fire-fighting apparatus used by law enforcement and fire protection agencies. There shall be no
13 less than one access gate and there shall be as many of these gates as needed to ensure
14 access to all major buildings and ground areas. If these gates are equipped with locks, the
15 locking devices shall be designed to permit ready entrance by the use of chain or bolt-cutting
16 devices. Electric gate openers, where provided, shall be listed in accordance with UL 325.
17 Gates intended for automatic operation shall be designed, constructed and installed to comply
18 with the requirements of ASTM F2200.

19 **17.04.310 Section 505.1 Street numbers — Amended.**

20 Section 505.1 of the 2010 California Fire Code is amended to read as follows:

21 Approved numbers and/or addresses shall be placed on all new and existing buildings and at
22 appropriate additional locations as to be plainly visible and legible from the street or roadway
23 fronting the property from either direction of approach. Said numbers shall contrast with their
24 background, and shall meet the following minimum standards as to size:

25 Single family residences: four inches high with a three-eighths inch stroke; for unit identification
26 of multi-family residential buildings: six inches high with a one-half inch stroke; for commercial,
27 industrial and multi-family residential buildings: minimum 12 inches high with a 1 ½ inch stroke.

28 Additional numbers shall be required where deemed necessary by the Fire Code Official, such
as rear access doors, building corners, and entrances to commercial centers. The Fire Code
Official may establish different minimum sizes for numbers for various categories of projects.

Multi-unit buildings: suite/apartment numbers shall be placed on or adjacent to the primary
entrance for each suite/apartment, and any other door providing access to fire department
personnel during an emergency.

Multiple residential and commercial units having entrance doors not visible from the street or
road shall, in addition to numbers placed adjacent to the entry door, shall have approved
numbers grouped for all units within each structure and positioned to be plainly visible from the
street, road or access path.

Multi-building clusters: shall place approved numbers or addresses on the front elevation(s) of
all buildings that form the cluster.

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17.04.320 Section 505.3 Easement address signs — Amended.

Chapter 5, Section 505.3 of the 2010 California Fire Code is amended to add the following:

All easements which are not named differently from the roadway, from which they originate, shall have an address sign installed and maintained, listing all street numbers occurring on that easement and shall be located where the easement intersects the named roadway. Minimum size of numbers on that sign shall be four inches in height with a minimum stroke of three-eighths inch, and shall contrast with the background.

17.04.330 Section 505.4 Map/directory—Amended.

Chapter 5, Section 505.4 of the 2010 California Fire Code is amended to add the following:

A lighted directory map, meeting current fire department standards, shall be installed at each driveway entrance to multiple unit residential projects and mobile home parks where the number of units in such projects exceeds 15 units.

17.04.340 Section 505.5 Response map updates —Amended.

Chapter 5, Section 505.5 of the 2010 California Fire Code is amended to add the following:

Any new development, which necessitates updating of emergency response maps by virtue of new structures, hydrants, roadways or similar features, shall be required to provide map updates in a format approved by the fire department. The responsible party shall be charged a reasonable fee for updating the City emergency response maps.

17.04.350 Section 506 Fire Service Features – Amended.

Chapter 5, Section 506 of the 2010 California Fire Code is amended to read as follows:

Section 506.1 Key Boxes: When access to or within a structure or an area is unduly difficult because of secured openings or where immediate access is necessary for life saving or firefighting purposes, the Fire Code Official is authorized to require a key box to be installed in an accessible location. The key box shall be a type approved by the Fire Code Official and shall contain keys to gain necessary access as required by the Fire Code Official.

Section 506.1.2 Emergency Key Access: All central station-monitored fire detection systems and fire sprinkler systems shall have an approved emergency key access box on site in an approved location. The owner or occupant shall provide and maintain current keys for the structure(s) for fire department placement in the box, and shall notify the fire department in writing when the building is re-keyed.

All appliances for all central station-monitored fire detection systems and fire sprinkler systems shall have an approved single access key at the direction of the Fire Code Official.

17.04.360 Section 507.3 Fire flow—Amended.

Section 507.3 of the 2010 California Fire Code is amended to read as follows:

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1 Fire flows shall be based on Appendix B (as amended) of the 2010 California Fire Code.
2 Consideration should be given to increasing the gallons per minute set forth in Appendix B (as
3 amended) to protect structures of extremely large square footage and for such reasons as: poor
access roads; grade and canyon rims; hazardous brush; and response times greater than five
minutes by a recognized fire department or fire suppression company.

4 In wildfire risk areas as defined in Section 202, the main capacity for new subdivisions shall not
5 be less than 2,500 gallons per minute, unless otherwise approved by the Fire Code Official.

6 If fire flow increases are not feasible, the Fire Code Official may require alternative design
7 standards such as: alternative types of construction providing a higher level of fire resistance;
8 fuel break requirements which could include required irrigation; modified access road
requirements; specified setback distances for building sites addressing canyon rim
developments and hazardous brush areas; and other requirements authorized by the Carlsbad
Municipal Code and as specified by the Fire Code Official.

9 **17.04.370 Section 603.6.6 Spark arrestors — Amended.**

10 Section 603.6.6 of the 2010 California Fire Code is amended to add the following:

11 An approved spark arrester shall be provided per California Residential Code (CRC) Section
12 1003.9.1.

13 **17.04.380 Section 603.8 Residential incinerators—Amended.**

14 Section 603.8 of the 2010 California Fire Code is amended to read as follows:

15 Residential incinerators shall be prohibited.

16 **17.04.390 Section 605.11 Building Services and Systems Photovoltaic Power
Systems – Amended.**

17 Chapter 6, Section 605.11 of the 2010 California Fire Code is amended to add the
18 following:

19 Sec. 605.11 Solar photovoltaic power systems: Solar photovoltaic power systems shall be
installed in accordance with this code, the Building Code and the Electrical Code.

20 *Exception:* Detached Group U non-habitable structures such as parking shade structures,
21 carports, solar trellises and similar type structures are not subject to the requirements of this
section.

22 Sec. 605.11.1 Marking: Marking is required on all interior and exterior conduit, enclosures,
23 raceways, cable assemblies, junction boxes, combiner boxes and disconnects.

24 Sec. 605.11.1.1 Materials: The materials used for marking shall be reflective, weather-resistant
and suitable for the environment. Marking as required in sections 605.11.1.2 through 605.11.1.4
25 shall have all letters capitalized with a minimum height of three-eighths inch white on red
background.

26 Sec. 605.11.1.2 Marking content: The marking shall contain the words "WARNING:
27 PHOTOVOLTAIC POWER SOURCE."
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1 Sec. 605.11.1.3 Main service disconnect: The marking shall be placed adjacent to the main
2 service disconnect in a location clearly visible from the location where the disconnect is
operated.

3 Sec. 605.11.1.4 Location of marking: Marking shall be placed on all interior and exterior DC
4 conduit, raceways, enclosures and cable assemblies every 10 feet, within one foot of all turns or
5 bends and within one foot above and below all penetrations of roof/ceiling assemblies and all
walls and barriers.

6 Sec. 605.11.2 Locations of DC conductors: Conduit, wiring systems and raceways for
7 photovoltaic circuits shall be located as close as possible to the ridge, hip or valley and from the
8 hip or valley as directly as possible to an outside wall to reduce trip hazards and maximize
9 ventilation opportunities. Conduit runs between sub arrays and to DC combiner boxes shall be
10 installed in a manner that minimizes the total amount of conduit on the roof by taking the
shortest path from the array to the DC combiner box. The DC combiner boxes shall be located
such that conduit runs are minimized in the pathways between arrays. DC wiring shall be
installed in metallic conduit or raceways when located within enclosed spaces within a building.
Conduit shall run along the bottom of load bearing members.

11 Sec. 605.11.3 Access and pathways: Roof access, pathways and spacing requirements shall be
12 provided in order to ensure access to the roof, provide pathways to specific areas of the roof,
provide for smoke ventilation operations, and to provide emergency egress from the roof.

13 *Exceptions:*

14 1. Requirements to ridge, hips and valleys do not apply to roof slopes of two units vertical in 12
units horizontal (2:12) or less.

15 2. Residential structures shall be designed so that each array is no greater than 150 feet by 150
16 feet in either axis.

17 3. The Fire Code Official may allow modules to be located up to the ridge when an alternative
18 ventilation method acceptable to the Fire Code Official has been provided or where the Fire
Code Official has determined vertical ventilation techniques will not be employed.

19 Sec. 605.11.3.1 Roof access points: Roof access points shall be defined as an area that does
20 not place ground ladders over openings such as windows or doors, and are located at strong
points of building construction in locations where the access point does not conflict with
overhead obstructions such as tree limbs, wires or signs.

21 Sec. 605.11.3.2 Residential systems for one- and two-family residential dwellings: Access shall
22 be provided in accordance with Sections 605.11.3.2.1 through 605.11.3.2.4.

23 Sec 605.11.3.2.1 Residential buildings with hip roof layouts: Modules shall be located in a
24 manner that provides a 3 foot wide clear access pathway from the eave to the ridge on each
roof slope where modules are located. The access pathway shall be located at a structurally
strong location on the building capable of supporting the live load of fire fighters accessing the
25 roof.

26 Sec. 605.11.3.2.2 Residential buildings with a single ridge: Modules shall be located in a
27 manner that provides two, three foot wide access pathways from the eave to the ridge on each
28 roof slope where the modules are located.

1 Sec. 605.11.3.2.3 Hips and valleys: Modules shall be located no closer than 18 inches to a hip
2 or a valley if modules are to be placed on both sides of a hip or valley. If the modules are to be
3 located on only one side of a hip or valley that is of equal length then the modules shall be
4 permitted to be placed directly adjacent to the hip or valley.

5 Sec. 605.11.3.2.4 Smoke ventilation: Modules shall be located no higher than three feet below
6 the ridge in order to allow for fire department smoke ventilation operations.

7 Sec. 605.11.3.3 All other occupancies: Access shall be provided in accordance with Sections
8 605.11.3.3.1 through 605.11.3.3.3.

9 *Exception:* Where it is determined by the Fire Code Official that the roof configuration is similar
10 to a one- or two-family dwelling, the Fire Code Official may approve the residential access and
11 ventilation requirements provided in Sections 605.11.3.2.1 through 605.11.3.2.4

12 Sec. 605.11.3.3.1 Access: There shall be a minimum six foot wide clear perimeter around the
13 edges of the roof.

14 *Exception:* If either axis of the building is 250 feet or less, there shall be a minimum four foot
15 wide clear perimeter around the edges of the roof.

16 Sec. 605.11.3.3.2 Pathways: The solar photovoltaic installation shall be designed to provide
17 designated pathways. The pathways shall meet the following requirements:

- 18 1. Pathways shall be over areas capable of supporting the live load of fire fighters accessing the
19 roof.
- 20 2. Center line axis pathways shall be provided in both axes of the roof. Center line axis
21 pathways shall run where the roof structure is capable of supporting the live load of fire
22 fighters accessing the roof.
- 23 3. Pathways shall be a straight line not less than four feet clear to skylight and/or ventilation
24 hatches.
- 25 4. Pathways shall be a straight line not less than four feet clear to roof standpipes.
- 26 5. Pathways shall provide not less than four feet clear around the roof access hatch with at least
27 one pathway not less than four feet clear to a parapet or roof edge.

28 Sec. 605.11.3.3.3 Smoke ventilation: The solar photovoltaic installation shall be designed to
meet the following requirements:

1. Arrays shall be no greater than 150 feet in distance in either axis in order to create
opportunities for smoke ventilation operations.
2. Smoke ventilation options between array sections shall be one of the following:
 - a. A pathway eight feet or greater in width;
 - b. A four feet or greater in width pathway and bordering roof skylights or smoke and
heat vents
 - c. A four feet or greater in width pathway and bordering four foot by eight foot venting
cutouts every 20 feet on alternating sides of the pathway.

1 Sec. 605.11.4 Ground-mounted photovoltaic arrays: Ground-mounted photovoltaic array
installations shall meet the requirements of Sections 605.11.4.1.

2 Sec. 605.11.4.1 Access: Access to ground-mounted photovoltaic arrays, associated equipment
3 structures and operations/maintenance buildings shall be per Section 503.

4 *Exception: Private residential systems where the energy generated is primarily for on-site use.*

5 Sec. 605.11.4.1.1 Perimeter access roadway: Ground-mounted photovoltaic arrays 10 acres
and larger in size shall be provided with an access roadway around the perimeter of the project.
6 The perimeter access roadway shall be installed per Section 503.

7 Sec. 605.11.4.2 Fuel modification: Combustible vegetation within the array and to a distance of
8 20 feet from the array and associated equipment shall be reduced to a height of no more than
six inches. Operation/maintenance buildings shall be provided with a fuel modification zone per
9 Section 319.

10 **17.04.400 Section 901.4.5 Fire department connections — Amended.**

11 Section 901.4.5 of the 2010 California Fire Code is amended to add the following:

12 Fire hose threads used in connection with fire-extinguishing systems shall be National Standard
Thread or as approved by the Fire Code Official. The location of fire department hose
13 connections and control valves shall be approved by the Fire Code Official.

14 **17.04.410 Section 903.2 Automatic fire extinguishing systems — Amended.**

15 Section 903.2 of the 2010 California Fire Code is amended to read as follows:

16 When required by any Title of the Carlsbad Municipal Code, an approved automatic sprinkler
system in new buildings and structures shall be provided in the locations described in this
17 section.

18 For the purpose of fire-sprinkler systems, buildings separated by less than ten (10) feet from
adjacent buildings shall be considered as one, this includes one- and two-family dwellings.

19 Barriers, partitions and walls, regardless of rating, shall not be considered as creating separate
20 buildings for purposes of determining fire sprinkler requirements.

21 All new Non-residential buildings constructed in which the aggregate floor area exceeds five-
thousand (5,000) square feet shall be required to be protected throughout by an approved
22 automatic fire sprinkler system at the discretion of the Fire Code Official. Mezzanines shall be
included in the total square footage calculation.

23 Any building or occupancy that employs a medical gas system as defined in Section 3006, in
24 addition to complying with the items described in 3006.1 through 3006.4, shall comply with the
latest edition of NFPA 99. These occupancies shall be required to have an automatic fire
25 sprinkler system designed to NFPA 13 standards.

26 For Group L and H occupancies that utilize medical gas systems for research purposes, Section
3006 in its entirety and all applicable chapters and sections of the 2010 fire code and applicable
27 nationally recognized standards shall apply.

1 For R-3 occupancies all new one and two-family dwellings shall be provided with automatic fire
sprinklers.

2 **17.04.420 Section 903.2.1.1(1) Group A-1 — Amended.**

3 Section 903.2.1.1(1) of the 2010 California Fire Code is amended to read as follows:

- 4
5 1. The *fire area* exceeds 5,000 square feet (464 m²).

6 **17.04.430 Section 903.2.1.3 (1) and (4) Group A-3 — Amended.**

7 Section 903.2.1.3 (1) and (4) of the 2010 California Fire Code is amended to read as
follows:

- 8 1. The *fire area* exceeds 5,000 square feet (464 m²)
9
10 4. The structure exceeds 5,000 square feet (464 m²), contains more than one fire area
containing exhibition and display rooms, and is separated into two or more buildings by fire
walls of less than four-hour fire resistance rating without openings.

11 **17.04.440 Section 903.2.1.4 (1) Group A-4 — Amended.**

12 Section 903.2.1.4 (1) of the 2010 California Fire Code is amended to read as follows:

- 13 1. The *fire area* exceeds 5,000 square feet (464 m²).

14 **17.04.450 Section 903.2.3 (1) and (4) Group E — Amended**

15 Section 903.2.3 (1) and (4) of the 2010 California Fire Code is amended to read as
16 follows:

- 17 1. Throughout all Group E *fire areas* greater than 5,000 square feet (464 m²) in area.
18
19 4. Throughout any Group E *structure* greater than 5,000 square feet (464 m²) in area, which
contains more than one fire area, and which is separated into two or more buildings by fire
walls of less than four-hour fire resistance rating without openings.

20 **17.04.460 Section 903.2.7(1) and (3) Group M — Amended.**

21 Section 903.2.7 (1) and (3) of the 2010 California Fire Code is amended to read as
22 follows:

- 23 1. Throughout all Group M *fire areas* greater than 5,000 square feet (464 m²) in area.
24
25 3. The combined area of all Group M *fire areas* on all floors, including mezzanines, exceeds
5,000 square feet (464 m²) aggregate area,

26 **17.04.470 Section 903.2.9(1) and (4) Group S-1 — Amended.**

27 Section 903.2.9 (1) and (4) of the 2010 California Fire Code is amended to read as
follows:

- 1 1. Throughout all Group S-1 *fire areas* greater than 5,000 square feet (464m²) in area.
2 3. The combined area of all Group S-1 *fire areas* on all floors, including mezzanines, exceeds
3 5,000 square feet (464m²) aggregate area,

4 **17.04.480 Section 903.3.1.1.1 Exception 4 — Amended.**

5 Section 903.3.1.1.1, Exception 4 of the 2010 California Fire Code, is deleted in its
6 entirety.

7 **17.04.490 Section 903.3.3 Obstructed locations — Amended.**

8 Section 903.3.3 of the 2010 California Fire Code, is amended to read as follows:

9 Sprinkler discharge shall not be blocked by obstructions unless additional sprinklers are
10 installed to protect the obstructed area. Sprinkler separation from obstructions shall comply with
11 the minimum distances specified in the sprinkler manufacturer's installation instructions, and/or
12 the provisions of NFPA 13.

13 **17.04.500 Section 903.4 Sprinkler System Monitoring and Alarms — Amended**

14 Section 903.4 (1) of the 2010 California Fire Code is amended to read as follows:

15 *Exception 1* – Automatic sprinkler systems with less than 100 fire sprinklers protecting one- and
16 two-family dwellings.

17 **17.04.510 Section 907.2.11.4 Power Sources (Smoke Alarms) — Amended.**

18 Chapter 9, Section 907.2.11.4 of the 2010 California Fire Code is amended to read as
19 follows:

20 907.2.11.4 Power Source: In new construction and in newly classified Group R-3.1
21 occupancies, required smoke alarms shall receive their primary power from the building wiring
22 when such wiring is served from a commercial source and shall be equipped with a battery
23 backup. Smoke alarms shall emit a signal when the batteries are low. Wiring shall be permanent
24 and without a disconnecting switch other than those required for over current protection. Smoke
25 alarms may be solely battery operated when installed in existing buildings; or in buildings
26 without commercial power; or in buildings, which undergo alterations, repairs, or additions
27 regulated by Section 907.2.11.5.

28 **17.04.520 Section 907.2.11.5 Smoke Alarms — Amended.**

Chapter 9, Section 907.2.11.5 of the 2010 California Fire Code is amended to add the
following:

Chapter 9, Section 907.2.11.5 Additions, Alterations or Repairs to Group R Occupancies is
hereby added to the Building/Fire Code portion of the California Building Standards Code to
read as follows:

(A) 907.2.11.5 Additions, Alterations or Repairs to Group R Occupancies: when the valuation of
an addition, alteration, or repair to a Group R occupancy exceeds \$1,000 and a permit is
required, or when one or more sleeping rooms are added or created in existing Group R
occupancies, smoke alarms shall be installed in accordance with Section 907.2.11.

1 **17.04.580 Section 3301.1.2 Prohibiting the possession, sales and use of fireworks —**
2 **Amended.**

3 Section 3301.1.2 of the 2010 California Fire Code is amended to add the following:

4 The possession, sale, use and or storage of all types of fireworks are prohibited within the City
5 limits. This includes those fireworks classified as "novelty" fireworks (e.g; Snap Caps and
6 Poppers) by the California State Fire Marshal.

7 This section does not apply to public fireworks displays permitted by the Fire Code Official
8 conducted by properly licensed persons meeting the requirements of Title 19 California Code of
9 Regulations, Chapter 6 - Fireworks.

10 **17.04.590 Section 3404.2.9.6.1 Prohibited/restricted locations for the storage of**
11 **flammable and combustible liquids in above-ground tanks —Amended.**

12 Section 3404.2.9.6.1 of the 2010 California Fire Code is amended to read as follows:

13 The storage of Class I and Class II liquids in aboveground tanks located outside of a building is
14 prohibited within the City limits.

15 *Exceptions:* Farms, rural areas and construction sites as provided in Section 3406.2 of the
16 2010 California Fire Code.

17 With written approval from the Fire Code Official, Class I and Class II liquids may be stored in
18 aboveground tanks outside of a building in specifically designed approved and listed tanks,
19 having features incorporated into its design which mitigate concerns for exposure to heat,
20 ignition sources and mechanical damage. Tanks must be installed and used in accordance with
21 its listing, and provisions must be made for leak and spill containment. Maximum storage in
22 approved and listed tanks on or at any site shall not exceed 550 gallons for Class I or 1,100
23 gallons for Class II liquids.

24 The Fire Code Official may disapprove the installation or continued use of such aboveground
25 tanks when, in the Fire Code Official's opinion, the aboveground tanks present an unacceptable
26 risk to life, the environment or property. No person or entity shall store Class I or Class II liquids
27 in aboveground storage tanks on residential property. Notwithstanding, the Fire Code Official
28 may allow an increase in the maximum storage volume when it is found that such an increase
 serves public safety interests.

17.04.600 Section 3405.2.4 Class I, II, and III Liquids — Amended.

 Section 3405.2.4 of the 2010 California Fire Code is amended to delete Exception 4 in its
 entirety.

17.04.610 Section 3804.2 Maximum capacity for storage of liquefied petroleum gas
 (LPG) — Amended.

 Section 3804.2 of the 2010 California Fire Code is amended to read as follows:

 Within the city limits, the combined aggregate capacity of all LPG-gas storage, on any single
 parcel, shall not exceed 2,000 gallons (7,571 L) water capacity.

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1 **17.04.620 Section 3807.5 Securing tanks to ground (LPG) — Amended.**

2 Chapter 38, Section 3807.5 of the 2010 California Fire Code is amended to add the
3 following:

4 LPG Tanks with a water capacity of 125 gallons or larger shall be secured to the ground to
5 prevent the tank from rolling or moving. The method of securing the tank to the ground must
6 meet the requirements contained in the 2010 California Fire Code for securing aboveground
7 hazardous materials storage tanks in seismic zone 4. "Wet stamped" engineering documents
8 from a California licensed Professional Engineer are required.

9 **17.04.630 Appendix B Section B105; Subsection B105.1 Fire-Flow Requirements for
10 Buildings — Amended.**

11 Appendix B, Section B105; Subsection B105.1 *Exception*: of the 2010 California Fire Code is
12 amended to read as follows:

13 *Exception*: A reduction in required fire flow of 50 percent, as approved by the Fire Code Official,
14 is allowed when the building is provided with an approved automatic sprinkler system installed
15 in accordance with Section 903.3.1.1 or 903.3.1.2 and designed to NFPA 13 or 13-R Standards
16 only. The resulting fire-flow shall not be less than 1,500 gallons per minute (5,678 L/min) for the
17 prescribed duration as specified in Table B105.1.

18 **17.04.640 Appendix B Section B105; Subsection B105.2 Fire-Flow Requirements for
19 Buildings — Amended.**

20 Appendix B, Section B105; Subsection B105.2, *Exception 1*: of the 2010 California Fire
21 Code is amended to read as follows:

- 22 1. A reduction in required fire flow of up to 50 percent, as approved by the Fire Code Official, is
23 allowed when the building is provided with an approved automatic sprinkler system installed
24 in accordance with Section 903.3.1.1 or 903.3.1.2 and designed to NFPA 13 Standard only.
25 The resulting fire-flow shall not be less than 1,500 gallons per minute (5,678 L/min) for the
26 prescribed duration as specified in Table B105.1.

27 **17.04.650 Appendix D Section D106; Subsection D106.1 Multiple-Family Residential
28 Developments—Amended.**

 Appendix D, Section D106; Subsection D106.1 of the 2010 California Fire Code is
amended to read as follows:

D 106.1 Projects having more than 24 dwelling units: Multiple-family residential projects having
more than 24 dwelling units shall be provided with two separate and approved fire apparatus
access roads.

**17.04.660 Appendix D Section D106; Subsection D106.1-Exception Multiple-Family
Residential Developments — Amended.**

Appendix D, Section D106; Subsection D106.1; *Exception* of the 2010 California Fire
Code is amended to read as follows:

Exception: Projects having more than 24 dwelling units may have a single approved fire
apparatus access road when all buildings, including non-residential occupancies, are equipped

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throughout with approved automatic sprinkler systems installed in accordance with 903.3.1.1 or 903.3.1.2 and designed to NFPA 13 or 13-R Standards only.

EFFECTIVE DATE: This ordinance shall be effective thirty days after its adoption; and the city clerk shall certify the adoption of this ordinance and cause it to be published at least once in a newspaper of general circulation in the City of Carlsbad within fifteen days after its adoption.

INTRODUCED AND FIRST READ at a regular meeting of the Carlsbad City Council on the 22nd day of March 2011, and thereafter

PASSED, APPROVED AND ADOPTED at a Regular Meeting of the City Council of the City of Carlsbad on the 5th day of April 2011 by the following vote to wit:

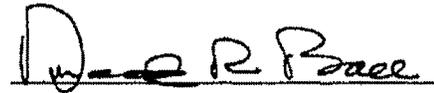
AYES: Council Members Hall, Kulchin, Blackburn, Douglas, Packard.

NOES: None.

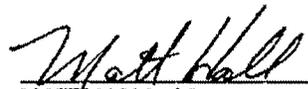
ABSENT: None.

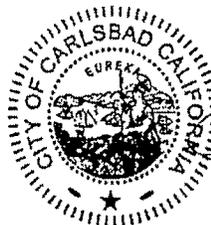
ABSTAIN: None.

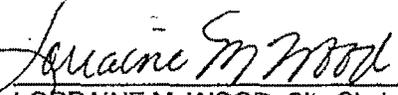
APPROVED AS TO FORM AND LEGALITY:



RONALD R. BALL, City Attorney


MATT HALL, Mayor



ATTEST:

LORRAINE M. WOOD, City Clerk
(SEAL)

ORDINANCE NO. CS-127

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CARLSBAD, CALIFORNIA, AMENDING CARLSBAD MUNICIPAL CODE, TITLE 18 CHAPTER 18.04, BUILDING CODE TO ADOPT THE 2010 EDITION OF THE CALIFORNIA BUILDING CODE.

WHEREAS, the City Council of the City of Carlsbad finds that adoption of the 2010 Edition of the California Building Code is in the best interest of the public and promotes the health, safety and welfare of its citizens; and

WHEREAS, the City of Carlsbad has many large brush-covered hillsides where accessibility for firefighting equipment and fire prevention measures is limited or impossible. Carlsbad has many open space easements deeded in perpetuity and areas of protected natural habitats immediately adjacent to developed areas of the City. Carlsbad has steep natural canyon terrain, and is subject to hot, dry, high-speed Santa Ana winds on an annual basis. This combination of climatic and topographic conditions creates extreme fire danger; and

WHEREAS, that climatic and topographical conditions can exist within the city that create an extreme fire danger and modification to the California Building Code is necessary for community health and safety.

THEREFORE, the City Council of the City of Carlsbad, California, does ordain as follows:

SECTION 1: That Chapter 18.04 of the Carlsbad Municipal Code is amended to read as follows:

**Chapter 18.04
BUILDING CODE**

Sections:

| | |
|-----------|--|
| 18.04.010 | Adoption. |
| 18.04.015 | Sections 105.1 and 105.2 amended—Permits required. |
| 18.04.020 | Section 105.3.1 amended—Building Permit issuance. |
| 18.04.025 | Building Official designated. |
| 18.04.030 | Section 105.5 amended—Expiration. |
| 18.04.035 | Section 105.3.2 amended—Expiration of plan review. |
| 18.04.040 | Section 109.2 amended—Permit fees. |
| 18.04.230 | Section 1501 amended—Scope. |
| 18.04.310 | Violations. |
| 18.04.315 | Certificate of noncompliance. |
| 18.04.320 | Section 502 amended—Premises identification. |
| 18.04.330 | Street name signs. |

1 **18.04.010 Adoption.**

2 The 2010 Edition of the California Building Code, Volumes 1 and 2 hereinafter referred to as
3 "the code", copyrighted by the California Building Standards Commission, two copies of which
4 are on file in the office of the city clerk for public record and inspection, are hereby adopted by
5 reference as the building code of the City of Carlsbad for regulating the erection, construction,
6 enlargement, alteration, repair, moving, removal, demolition, conversion, occupancy,
7 equipment, use, height, area, and maintenance of all buildings or structures in the city of
8 Carlsbad, except for changes, additions, deletions and amendments in this chapter, which shall
9 supersede the provisions of said code.

10 **18.04.015 Sections 105.1 and 105.2 amended—Permits required.**

11 Sections 105.1 and 105.2 of the California Building Code are amended to read as
12 follows:

13 **105.1 Permits Required.** Except as specified in Section 105.2 of this section, no building or
14 structure regulated by this code shall be erected, constructed, enlarged, altered, repaired,
15 moved, improved, removed, converted, or demolished unless a separate permit for each
16 building or structure has first been obtained from the Building Official.

17 **105.2 Work Exempt from Permit.** A building permit shall not be required for the following:

- 18 1. One story detached residential accessory buildings used as tool and storage sheds,
19 playhouses and similar uses, provided the floor area does not exceed 120 square feet (11
20 m²).
- 21 2. Playground, gymnastic and similar equipment and structures used for recreation and athletic
22 activities.
- 23 3. Fences not over six feet (1,829 mm) high.
- 24 4. Non-fixed movable fixtures, cases, racks, counters and partitions not over five feet nine
25 inches (1,853 mm) in height.
- 26 5. Retaining walls which are not over four feet (1,219 mm) in height measured from the bottom
27 of the footing to the top of the wall, unless supporting a surcharge or impounding Class I, II
28 or IDA liquids.
6. Water tanks supported directly upon grade if the capacity does not exceed 5,000 gallons
 (18,925 L) and the ratio of height to diameter or width does not exceed two to one.
7. Platforms, walks and driveways not more than 30 inches above grade and not over any
 basement or story below and are not part of an accessible route.
8. Painting, papering and similar finish work.
9. Temporary motion picture, television and theater stage sets and scenery.
10. Window awnings supported by an exterior wall of group R, Division 3, and Group U
 occupancies when projecting not more than 54 inches.

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- 1 11. Prefabricated swimming pools accessory to a Group R Division 3 Occupancy in which the
2 pool walls are entirely above the adjacent grade and if the capacity does not exceed 5,000
3 gallons.
- 4 12. Antennas supported on the roof.
- 5 13. Electrolier standards, flag poles and antennas not over 35 feet in height above finish grade
6 when fully extended.
- 7 14. Repairs which involve only the replacement of component parts or existing work with similar
8 materials only for the purpose of maintenance and which do not aggregate over \$1,000.00
9 in valuation and do not affect any electrical or mechanical installations. Repairs exempt from
10 permit requirements shall not include any addition, change or modification in construction,
11 exit facilities or permanent fixtures or equipment. Specifically exempt from permit
12 requirements regardless of value:
- 13 a. Painting and decorating
 - 14 b. Installation of floor covering.
 - 15 c. Cabinet work.
 - 16 d. Outside paving.

17 Unless otherwise exempted, separate plumbing, electrical and mechanical permits will
18 be required for the above exempted items. Exemption from the permit requirements of this
19 code shall not be deemed to grant authorization for any work to be done in any manner in
20 violation of the provisions of this code or any other laws or ordinances of this jurisdiction.

21 **18.04.020 Section 105.3.1 amended—Building Permit issuance.**

22 Section 105.3.1 of the California Building Code is amended to read as follows:

23 The application, plans and specifications filed by an applicant for a permit shall be reviewed by
24 the Building Official. Such plans may be reviewed by other divisions of the City to check
25 compliance with the laws and ordinances under their jurisdiction. If the Building Official is
26 satisfied that the work described in an application for permit and the plans filed therewith
27 conform to the requirements of this code and other pertinent laws and ordinances and that all
28 applicable fees have been paid, the Building Official shall issue a permit therefore to the
applicant. In the case of a new building, all fees required for connection to public water systems
and to sewer systems provided by entities other than the City must be paid or a bond posted
before a permit is issued.

When the Building Official issues a permit, the Building Official shall endorse in writing or stamp
on both sets of plan and specifications, "Approved". Such approval plans and specifications
shall not be changed, modified, or altered without authorization from the Building Official, and all
work shall be done in accordance with the approved plans.

The Building Official may issue a permit for the construction of part of a building or structure
before the entire plans and specifications for the whole building or structure have been
submitted or approved, provided adequate information and detailed statements have been filed
complying with all pertinent requirements of this code. The holder of such permit shall proceed
at their own risk without assurance that the permit for the entire building or structure will be
granted.

1 **PERMIT FEES.** The fees for each permit shall be as set forth in the City's master fee schedule
2 or by a resolution of the City Council.

3 Notwithstanding other provisions of this section, the building permit fee for factory built housing
4 shall be twenty-five percent of the fee for Type V dwelling units, and the plan check fee shall be
5 sixty-five percent of the building permit fee.

6 **18.04.230 Section 1501 amended—Scope.**

7 Section 1501 of the California Building Code is amended to read as follows:

8 Roofing assemblies, roof coverings, and roof structures shall be as specified in this Code and
9 as otherwise required by this Chapter.

10 Roofing assemblies and roof coverings other than wood shakes and shingles shall be Class A.

11 Wood Shakes and Shingles of any classification are prohibited as a roof covering on all
12 structures and on all replacement roofs.

13 Roof coverings shall be secured or fastened to the supporting roof construction and shall
14 provide weather protection for the building at the roof.

15 Skylights shall be constructed as required in Chapter 24. For use of plastics in roofs, see
16 Chapter 26. For solar energy collectors located above or upon a roof, see Chapter 13.

17 **18.04.310 Violations.**

18 Any person or corporation who violates any of the provisions of this code or this chapter is guilty
19 of an infraction, except for the fourth and each additional violation of a provision within one year,
20 which shall be a misdemeanor. Penalties for a violation of this chapter shall be as designated in
21 section 1.08.010 of this code.

22 **18.04.315 Certificate of noncompliance.**

23 a. If the building official determines there is a violation of this chapter, it may result
24 in the building official filing, in the office of the county recorder, a certificate of noncompliance.
25 Such certificate shall describe the property, certify noncompliance, and state that the owner or
26 person in control of the property has been notified. If a certificate of noncompliance is filed, and
27 where the permit, inspection, and/or approval required is obtained, the building official shall
28 provide to the property owner a certificate of compliance to file with the county recorder
certifying compliance. Until a certificate of compliance has been filed, all applications for grading
permits, use permits, major and minor subdivisions, rezones, specific plans, specific plan
amendments, general plan amendments, discretionary approvals and building permits may be
denied.

b. When the building official or the authorized representative thereof determines
that compliance to this chapter is not had, they shall provide written notice, by certified mail
return receipt requested, to the owner or person in control of the property. Such notice shall
contain: (1) a description of the property; (2) the condition or condition that has caused the
noncompliance; (3) a reasonable time limit to bring the property into compliance; (4) the
potential to record a certificate of noncompliance; and (5) the right to appeal.

c. Within ten days from the date of giving of notice, the owner or person in control of

1 the property may file an appeal of the finding of noncompliance to the city council. Such appeal
2 shall be in writing and shall identify the property subject to the certificate of noncompliance. The
3 city council must hear the appeal within 60 days from the filing of the appeal or at such later
4 date as may be agreed to by the appellant. Notice of the hearing date shall be given in writing.
5 The hearing date shall be no sooner than five days from the date when notice of the hearing is
6 given to the appellant and to the building official. The decision of the city council is final.

7 **18.04.320 Section 502 amended—Premises identification.**

8 Section 502 of the California Building Code is amended to read as follows:

9 Each occupancy, principal building, structure, dwelling unit, and mobile home space within the
10 City shall be identified by a number or combination of number and letter. Such numbers shall be
11 in harmony with other established postal addresses in the area. The numbers for commercial
12 and industrial buildings shall be a minimum of 12 inches high and for residential buildings, four
13 inches high, and shall be of contrasting colors so as to be readable from the adjoining streets.
14 Numbers shall be designated and assigned by the Building Department.

15 **18.04.330 Street name signs.**

16 All private and public streets within the city shall have designated street names which shall be
17 identified by signs. The size and type of street signs and the names of streets shall be subject to
18 the approval of the city planning department, and the police and fire departments. Location and
19 number of signs shall be as required by the city.

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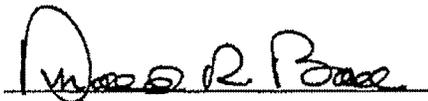
EFFECTIVE DATE: This ordinance shall be effective thirty days after its adoption; and the city clerk shall certify the adoption of this ordinance and cause it to be published at least once in a newspaper of general circulation in the City of Carlsbad within fifteen days after its adoption.

INTRODUCED AND FIRST READ at a regular meeting of the Carlsbad City Council on the 22nd day of March 2011, and thereafter

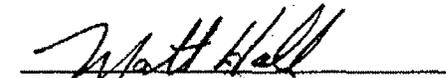
PASSED, APPROVED AND ADOPTED at a Regular Meeting of the City Council of the City of Carlsbad on the 5th day of April 2011 by the following vote to wit:

- AYES: Council Members Hall, Kulchin, Blackburn, Douglas, Packard.
- NOES: None.
- ABSENT: None.
- ABSTAIN: None.

APPROVED AS TO FORM AND LEGALITY:



RONALD R. BALL, City Attorney


MATT HALL, Mayor

ATTEST:

LORRAINE M. WOOD, City Clerk
(SEAL)



ORDINANCE NO. CS-128

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CARLSBAD, CALIFORNIA, AMENDING CARLSBAD MUNICIPAL CODE TITLE 18, CHAPTER 18.08, MECHANICAL CODE TO ADOPT THE 2010 EDITION OF THE CALIFORNIA MECHANICAL CODE.

WHEREAS, the City Council of the City of Carlsbad finds that adoption of the 2010 Edition of the California Mechanical Code is in the best interest of the public and promotes the health, safety and welfare of its citizens.

THEREFORE, the City Council of the City of Carlsbad, California, does ordain as follows:

SECTION 1: That Title 18, Chapter 18.08 of the Carlsbad Municipal Code, is amended to read as follows:

**Chapter 18.08
MECHANICAL CODE**

Sections:

- 18.08.010 Adoption.**
- 18.08.020 Building Official designated.**
- 18.08.030 Violations.**
- 18.08.040 Certificate of noncompliance.**
- 18.08.050 Permit Fees.**

18.08.010 Adoption.

The California Mechanical Code 2010 Edition, copyrighted by the International Association of Plumbing and Mechanical Officials, is adopted by reference as the mechanical code of the City of Carlsbad.

18.08.020 Building Official designated.

The building official or authorized representative of the city is designated as the person who shall enforce all of the provisions of the California Mechanical Codes as amended.

18.08.030 Violations.

Any person or corporation who violates any of the provisions of this chapter is guilty of an infraction, except for the fourth and each additional violation of a provision within one year, which shall be a misdemeanor. Penalties for a violation of this chapter shall be as designated in Section 1.08.010 of this code.

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18.08.040 Certificate of noncompliance.

1. If the Building Official determines there is a violation of this chapter, it may result in the building official filing, in the office of the county recorder, a certificate of noncompliance. Such certificate shall describe the property, certify noncompliance, and state that the owner or person in control of the property has been so notified. If a certificate of noncompliance is filed, and where the permit, inspection, and/or approval required is obtained, the building official shall file a certificate of compliance with the county recorder certifying compliance. Until a certificate of compliance has been filed, all applications for grading permits, use permits, major and minor subdivisions, rezones, specific plans, specific plan amendments, general plan amendments, discretionary approvals and building permits may be denied.
2. When the building official or the authorized representative thereof determines that compliance to this chapter is not had, they shall provide written notice, by certified mail return receipt requested, to the owner or person in control of the property. Such notice shall contain: (1) a description of the property; (2) the condition or condition that has caused the noncompliance; (3) a reasonable time limit to bring the property into compliance; (4) the potential to record a certificate of noncompliance; and (5) the right to appeal.
3. Within ten days from the date of giving of notice, the owner or person in control of the property may file an appeal of the finding of noncompliance to the city council. Such appeal shall be in writing and shall identify the property subject to the certificate of noncompliance. The city council must hear the appeal within sixty days from the filing of the appeal or at such later date as may be agreed to by the appellant. Notice of the hearing date shall be given in writing. The hearing date shall be no sooner than five days from the date when notice of the hearing is given to the appellant and to the building official. The decision of the city council is final.

18.08.050 Permit fees.

The fees for each permit shall be as set forth in the city's master fee schedule or by a resolution of the City Council.

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EFFECTIVE DATE: This ordinance shall be effective thirty days after its adoption; and the city clerk shall certify the adoption of this ordinance and cause it to be published at least once in a newspaper of general circulation in the City of Carlsbad within fifteen days after its adoption.

INTRODUCED AND FIRST READ at a regular meeting of the Carlsbad City Council on the 22nd day of March 2011, and thereafter

PASSED, APPROVED AND ADOPTED at a Regular Meeting of the City Council of the City of Carlsbad on the 5th day of April 2011 by the following vote to wit:

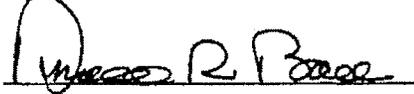
AYES: Council Members Hall, Kulchin, Blackburn, Douglas, Packard.

NOES: None.

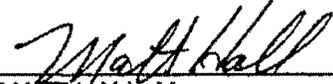
ABSENT: None.

ABSTAIN: None.

APPROVED AS TO FORM AND LEGALITY:



RONALD R. BALL, City Attorney


MATT HALL, Mayor

ATTEST:


LORRAINE M. WOOD, City Clerk


02100

ORDINANCE NO. CS-129

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CARLSBAD, CALIFORNIA, AMENDING CARLSBAD MUNICIPAL CODE TITLE 18, CHAPTER 18.12, ELECTRICAL CODE TO ADOPT THE 2010 EDITION OF THE CALIFORNIA ELECTRICAL CODE

WHEREAS, the City Council of the City of Carlsbad finds that adoption of the 2010 Edition of the California Electrical Code is in the best interest of the public and promotes the health, safety and welfare of its citizens.

THEREFORE, the City Council of the City of Carlsbad, California, does ordain as follows:

SECTION 1: That Title 18, Chapter 18.12 of the Carlsbad Municipal Code, is amended to read as follows:

**Chapter 18.12
ELECTRICAL CODE**

Sections:

I. General Regulations

- 18.12.010 Adoption.
- 18.12.020 Application—Scope.
- 18.12.030 Building official designated.
- 18.12.080 Permits—Required.
- 18.12.090 Permits—Exceptions.
- 18.12.100 Permits—Expiration.
- 18.12.120 Permit—Scope.
- 18.12.130 Permit—Application.
- 18.12.215 Temporary meter sets.
- 18.12.220 Cost of permit.
- 18.12.225 Violations and penalties.
- 18.12.227 Certificate of noncompliance.

I. General Regulations

18.12.010 Adoption.

The California Electrical Code 2010 Edition, copyrighted by the National Fire Protection Association, is adopted by reference as the electrical code for the city of Carlsbad.

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1 **18.12.020 Application—Scope.**

2 The provisions of this code shall apply to the installation, repair, operation and maintenance of
3 all electric wiring and electrical apparatus of any nature whatsoever whether inside or outside of
4 any building within the city except as provided otherwise in this code.

4 **18.12.030 Building official designated.**

5 The building official or authorized representative of the city is designated as the person who
6 shall enforce all of the provisions of the California Electrical Code.

6 **18.12.080 Permits - Required.**

- 7 1. No electric wiring, devices, appliances or equipment shall be installed within or on any
8 building, structure or premises nor shall any alteration without first securing a permit therefor
9 from the building official except as stated in Section 18.12.090.
- 10 2. Permits shall be obtained before or at the time work is started, except in cases where
11 emergency or urgent necessity can be shown to exist provided a permit is obtained within
12 24 hours, exclusive of Saturdays, Sundays, and holidays.
- 13 3. A separate permit shall be required for each building or structure which stands alone.
- 14 4. Permits for privately-owned conduits or other materials in public places and in and across
15 streets and alleys may be issued only after approval has been granted for the installation by
16 the city engineer. All work shall be done in accordance with law and special regulations
17 applicable thereto.
- 18 5. Permits shall only be issued to contractors licensed by the state of California to engage in
19 the business or act in the capacity of a contractor, relating to electrical inspection
20 installation, and to persons holding a valid master electrician certificate of competency for
21 work performed only on the property of his employer, or the owner

17 **18.12.090 Permits – Exceptions.**

- 18 1. No permit shall be required for minor repair work such as repairing flush or snap switches,
19 replacing fuses, repairing lamp sockets and receptacles when such work is done in
20 accordance with the provisions of this code.
- 21 2. No permit shall be required for the replacement of lamps or the connection of portable
22 appliances to suitable receptacles which have been permanently installed.
- 23 3. No permit shall be required for the installation, alteration or repair of wiring, devices,
24 appliances or equipment for the operation of signals or the transmission of intelligence (not
25 including the control of lighting or appliance circuits) where such wiring, devices, appliances
26 or equipment operate a voltage not exceeding twenty-five volts between conductors and do
27 not include generating or transforming equipment capable of supplying more than one
28 hundred watts of energy.
- 29 4. No permit shall be required for the installation, alteration or repair of electric wiring, devices,
30 appliances and equipment installed by or for a public service corporation in the operation of
31 signals or the transmission of intelligence.

1 5. No permit shall be required for the installation of temporary wiring for testing electrical
2 apparatus or equipment.

3 **18.12.100 Permits – Expiration.**

4 1. If the work authorized by a permit is not commenced within 180 days after issuance or if the
5 work authorized by a permit is suspended or abandoned at any time after the work is
6 commenced for a period of 180 days, the permit shall become void.

7 2. Permits shall expire one year after the date of issuance unless the permit is issued for a
8 longer period of time.

9 3. Permits for a period longer than one year must be requested at the time of application for
10 the original permit. Said permits will be issued for a period of time determined by the
11 building official to be reasonably necessary to complete the work for which a permit is
12 requested.

13 4. An expired permit may be renewed upon payment of a fee to cover the unfinished work
14 according to the fee schedule.

15 **18.12.120 Permit – Scope.**

16 The permit when issued shall be for such installation as is described in the application and no
17 deviation shall be made from the installation so described without the written approval of the
18 building official.

19 **18.12.130 Permit- Application.**

20 Application for permit, describing the work to be done, shall be made in writing to the building
21 official. The application shall be accompanied by such plans, specifications and schedules as
22 may be necessary to determine whether the installation as described will be in conformity with
23 the requirements of this code. If it shall be found that the installation as described will in general
24 conform with the requirements of this code, and if the applicant has complied with all of the
25 provisions of this code, a permit for such installation shall be issued; provided however that the
26 issuance of the permit shall not be taken as permission to violate any of the requirements of this
27 code. Application for permits for electrical installations where the service capacity exceeds 200
28 amperes shall be accompanied by two sets of electrical line drawings and load distribution
calculations showing service panel and branch panel capacities and locations service switch
and branch switch capacities, conduit and feeder sizes.

18.12.215 Temporary meter sets.

A temporary meter may be set on the permanent electrical service base for testing equipment,
for lighting of interiors where outside sources do not light, or for health and safety and protection
of persons. Failure to provide and comply with all provisions of this chapter shall constitute
grounds for the removal of any or all meters on the project.

18.12.220 Cost of permit.

The fees for each electrical permit shall be as set forth in the City's master fee schedule or by a
resolution of the City Council.

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1 Any person who commences any work for which a permit is required by this code without first
2 having obtained a permit therefore shall, if subsequently permitted to obtain a permit, pay
3 double the permit fee fixed by this section for such work; provided, however, that this provision
4 shall not apply to emergency work when it has been proven to the satisfaction of the
5 administrative authority that such work was urgently necessary and that it was not practical to
6 obtain a permit therefore before the commencement of the work. In all such cases, a permit
7 must be obtained as soon as it is practical to do so, and if there is an unreasonable delay in
8 obtaining such permit, a double fee as provided in this section shall be charged.

9 **18.12.225 Violations and penalties.**

- 10 1. Any person or corporation who violates any of the provisions of this chapter is guilty of an
11 infraction except for the fourth or each additional violation of a provision within one year
12 which shall be a misdemeanor. Penalties of a violation of this chapter shall be designated in
13 Section 1.08.010 of this code.
- 14 2. The issuance or granting of a permit or approval of plans shall not prevent the building
15 official from thereafter requiring the correction of errors in these plans and specifications, or
16 from preventing construction operations from being carried on there under when in violation
17 of this code or of any other ordinance, or from revoking any certificate of approval when
18 issued in error.

19 **18.12.227 Certificate of noncompliance.**

- 20 1. If the building official determines there is a violation of this chapter, it may result in the
21 building official filing, in the office of the county recorder, a certificate of noncompliance.
22 Such certificate shall describe the property, certify noncompliance, and state that the owner
23 or person in control of the property has been so notified. If a certificate of noncompliance is
24 filed, and where the permit, inspection, and/or approval required is obtained, the building
25 official shall file a certificate of compliance with the county recorder certifying compliance.
26 Until a certificate of compliance has been filed, all applications for grading permits, use
27 permits, major and minor subdivisions, rezones, specific plans, specific plan amendments,
28 general plan amendments, discretionary approvals and building permits may be denied.
- 1 2. When the building official or the authorized representative thereof determines that
2 compliance to this chapter is not had, they shall provide written notice, by certified mail
3 return receipt requested, to the owner or person in control of the property. Such notice shall
4 contain: (1) a description of the property; (2) the condition or condition that has caused the
5 noncompliance; (3) a reasonable time limit to bring the property into compliance; (4) the
6 potential to record a certificate of noncompliance; and (5) the right to appeal.
- 7 3. Within ten days from the date of giving of notice, the owner or person in control of the
8 property may file an appeal of the finding of noncompliance to the city council. Such appeal
9 shall be in writing and shall identify the property subject to the certificate of noncompliance.
10 The city council must hear the appeal within 60 days from the filing of the appeal or at such
11 later date as may be agreed to by the appellant. Notice of the hearing date shall be given in
12 writing. The hearing date shall be no sooner than five days from the date when notice of the
13 hearing is given to the appellant and to the building official. The decision of the city council is
14 final.

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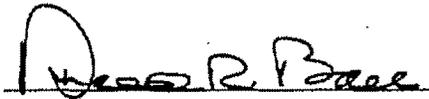
EFFECTIVE DATE: This ordinance shall be effective thirty days after its adoption; and the city clerk shall certify the adoption of this ordinance and cause it to be published at least once in a newspaper of general circulation in the City of Carlsbad within fifteen days after its adoption.

INTRODUCED AND FIRST READ at a regular meeting of the Carlsbad City Council on the 22nd day of March 2011, and thereafter

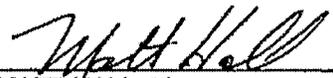
PASSED, APPROVED AND ADOPTED at a Regular Meeting of the City Council of the City of Carlsbad on the 5th day of April 2011 by the following vote to wit:

- AYES: Council Members Hall, Kulchin, Blackburn, Douglas, Packard.
- NOES: None.
- ABSENT: None.
- ABSTAIN: None.

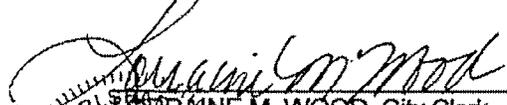
APPROVED AS TO FORM AND LEGALITY:



RONALD R. BALL, City Attorney


MATT HALL, Mayor

ATTEST:


CORRAINE M. WOOD, City Clerk



ORDINANCE NO. CS-130

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CARLSBAD, CALIFORNIA, AMENDING CARLSBAD MUNICIPAL CODE TITLE 18, PLUMBING CODE CHAPTER 18.16 TO ADOPT THE 2010 EDITION OF THE CALIFORNIA PLUMBING CODE.

WHEREAS, the City Council of the City of Carlsbad finds that adoption of the 2010 Edition of the California Plumbing Code is in the best interest of the public and promotes the health, safety and welfare of its citizens.

THEREFORE, the City Council of the City of Carlsbad, California, does ordain as follows:

SECTION 1: The City Council finds that unique circumstances require certain amendments to the California Plumbing Code. The amendments set forth in this ordinance are reasonable necessary because of the local climate, which includes low rainfall and periods of drought. It has become necessary to expand the use of recycled water throughout the city in order to conserve potable water. Cross-connection testing is also required by California State law.

SECTION 2: That Title 18, Chapter 18.16 of the Carlsbad Municipal Code, is amended to read as follows:

**Chapter 18.16
PLUMBING CODE**

Sections:

I. General Regulations

- 18.16.010 Adoption.**
- 18.16.030 Building Official designated.**
- 18.16.040 Expiration of permit.**
- 18.16.060 Standards for installation and materials.**
- 18.16.080 Section 609.12 added—Bypass tees.**

II. Modifications

- 18.16.120 Section 102.3.1 amended—Violations.**
- 18.16.125 Certificate of noncompliance.**
- 18.16.130 Section 103.4.1 amended—Permit fees.**

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I. General Regulations

18.16.010 Adoption.

The California Plumbing Code, 2010 Edition, copyrighted by the International Association of Plumbing and Mechanical Officials, is adopted by reference as the plumbing code of the city of Carlsbad except for the changes, additions, and amendments set forth in this chapter, which shall supersede such provisions of said code.

18.16.030 Building Official designated.

The building official or authorized representative of the city is designated as the person who shall enforce the provisions of the California Plumbing Code as amended.

18.16.040 Expiration of permit.

Every permit issued by the building official under the provisions of this code shall expire by limitation and become null and void if the work authorized by such permit is not commenced within 180 days from date of such permit, or if the work authorized by such permit is suspended or abandoned at any time after the work is commenced for a period of 180 days. Before such work can be recommenced a new permit shall first be obtained, and the fee therefore shall be one half the amount required for a new permit for such work provided no changes have been made, or will be made, in the original plans and specifications for such work, and provided, further, that such suspension or abandonment has not exceeded one year. Within the overall one-year life of a permit any failure to commence work or any suspension of work caused solely by delay incident to securing approval of a coastal development permit pursuant to Division 20 of the Public Resources Code shall not constitute part of the respective 180 day period presented for expiration of a permit.

18.16.060 Standards for installation and materials.

All installations and materials shall be in conformity with the provisions of this code and with approved standards of safety as to life and property. All installations on any public or private piers or on the tidelands shall be in conformity with the provisions of this code. The disposal of the effluent must meet with the approval of the director of public health.

18.16.080 Section 1622A.0 added—Bypass tees.

Section 1622A.0 is added to the California Plumbing Code to read as follows:

On the effective date of this Ordinance, all new buildings where recycled water will be used for irrigation shall install on the building supply pipe a bypass tee for recycled water cross-connection shut down testing. The bypass tee shall be constructed of copper and the size shall match the building supply pipe size approved for the building. The bypass tee shall be connected to the building supply pipe above ground and before the pressure regulator at a point just before it enters the building. Both end connections to the building supply pipe shall be made using a union. A bronze full port straight ball valve with handle shall be installed on the inlet side of the bypass tee for the building supply pipe, and sized to match the inlet tee. A bronze full port straight ball valve with tee-head and padlock wing shall be installed on the side inlet tee, which shall be threaded with a male hose thread adapter to match the building supply pipe size. The work shall be in conformance with Engineering Standard Drawing W35. All shut down tests using the bypass tee shall be conducted with a backflow prevention device to reduce potential for contamination of the potable water system.

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II. Modifications

18.16.120 Section 102.3.1 amended—Violations.

Section 102.3.1 of the California Plumbing Code is amended to read as follows:

Any person or corporation who violates any of the provisions of this chapter is guilty of an infraction except for the fourth or each additional violation of a provision within one year which shall be a misdemeanor. Penalties for a violation of this chapter shall be as designated in Section 1.08.010 of this code.

18.16.125 Certificate of noncompliance.

1. If the building official determines there is a violation of this chapter, it may result in the building official filing, in the office of the county recorder, a certificate of noncompliance. Such certificate shall describe the property, certify noncompliance, and state that the owner or person in control of the property has been so notified. If a certificate of noncompliance is filed, and where the permit, inspection, and/or approval required is obtained, the building official shall file a certificate of compliance with the county recorder certifying compliance. Until a certificate of compliance has been filed, all applications for grading permits, use permits, major and minor subdivisions, rezones, specific plans, specific plan amendments, general plan amendments, discretionary approvals and building permits may be denied.
2. When the building official or the authorized representative thereof determines that compliance to this chapter is not had, they shall provide written notice, by certified mail return receipt requested, to the owner or person in control of the property. Such notice shall contain: (1) a description of the property; (2) the condition or condition that has caused the noncompliance; (3) a reasonable time limit to bring the property into compliance; (4) the potential to record a certificate of noncompliance; and (5) the right to appeal.
3. Within ten days from the date of giving of notice, the owner or person in control of the property may file an appeal of the finding of noncompliance to the city council. Such appeal shall be in writing and shall identify the property subject to the certificate of noncompliance. The city council must hear the appeal within 60 days from the filing of the appeal or at such later date as may be agreed to by the appellant. Notice of the hearing date shall be given in writing. The hearing date shall be no sooner than five days from the date when notice of the hearing is given to the appellant and to the building official. The decision of the city council is final.

18.16.130 Section 103.4.1 amended—Permit fees.

Section 103.4.1 of the California Plumbing Code is amended to read as follows:

The fee for each plumbing permit shall be as set forth in the city's master fee schedule or by resolution of the City Council.

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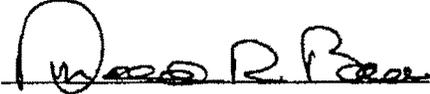
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INTRODUCED AND FIRST READ at a regular meeting of the Carlsbad City Council on the 22nd day of March 2011, and thereafter

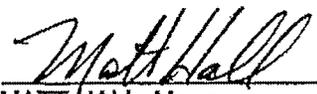
PASSED, APPROVED AND ADOPTED at a Regular Meeting of the City Council of the City of Carlsbad on the 5th day of April 2011 by the following vote to wit:

- AYES: Council Members Hall, Kutchin, Blackburn, Douglas, Packard.
- NOES: None.
- ABSENT: None.
- ABSTAIN: None.

APPROVED AS TO FORM AND LEGALITY:



RONALD R. BALL, City Attorney


MATT HALL, Mayor

ATTEST:


LORRAINE M. WOOD, City Clerk



ORDINANCE NO. CS-131

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CARLSBAD, CALIFORNIA, AMENDING CARLSBAD MUNICIPAL CODE, TITLE 18, CHAPTER 18.18, SOLAR ENERGY CODE TO ADOPT THE 2009 EDITION OF THE UNIFORM SOLAR CODE.

WHEREAS, the City Council of the City of Carlsbad finds that adoption of the 2010 Edition of the California Solar Energy Code is in the best interest of the public and promotes conservation, health, safety and welfare of its citizens.

THEREFORE, the City Council of the City of Carlsbad, California, does ordain as follows:

SECTION 1: That Title 18, Chapter 18.18 of the Carlsbad Municipal Code is amended by to read as follows:

**Chapter 18.18
SOLAR ENERGY CODE**

Sections:

- 18.18.010 Adoption of the Uniform Solar Energy Code.**
- 18.18.020 Building Official designated.**
- 18.18.030 Violations.**
- 18.18.040 Permit fees.**

18.18.010 Adoption of the Uniform Solar Energy Code.

The Uniform Solar Energy Code, 2009 Edition, copyrighted by the International Association of Plumbing and Mechanical Officials, is adopted by reference as the solar energy code of the city of Carlsbad.

18.18.020 Building Official designated.

The building official or authorized representative of the city is designated as the person who shall enforce the provisions of the Uniform Solar Energy Code as amended.

18.18.030 Violations.

Any person or corporation who violates any of the provisions of this chapter is guilty of an infraction except for the fourth and each additional violation of a provision within one year which shall be a misdemeanor. Penalties for a violation of this chapter shall be as designated in Section 1.08.010 of this code.

18.18.040 Permit fees.

The fee for each permit shall be as set forth in the City's master fee schedule or by resolution of the City Council.

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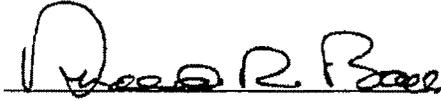
EFFECTIVE DATE: This ordinance shall be effective thirty days after its adoption; and the city clerk shall certify the adoption of this ordinance and cause it to be published at least once in a newspaper of general circulation in the City of Carlsbad within fifteen days after its adoption.

INTRODUCED AND FIRST READ at a regular meeting of the Carlsbad City Council on the 22nd day of March 2011, and thereafter

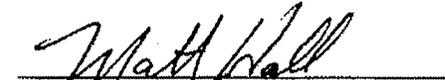
PASSED, APPROVED AND ADOPTED at a Regular Meeting of the City Council of the City of Carlsbad on the 5th day of April 2011 by the following vote to wit:

- AYES: Council Members Hall, Kulchin, Blackburn, Douglas, Packard.
- NOES: None.
- ABSENT: None.
- ABSTAIN: None.

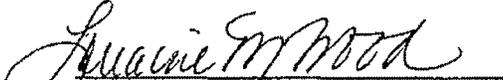
APPROVED AS TO FORM AND LEGALITY:

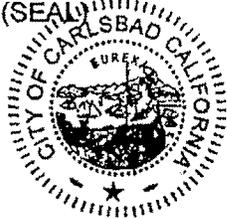


RONALD R. BALL, City Attorney


MATT HALL, Mayor

ATTEST:


LORRAINE M. WOOD, City Clerk



ORDINANCE NO. CS-132

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CARLSBAD, CALIFORNIA, AMENDING CARLSBAD MUNICIPAL CODE TITLE 18, BY ADDING CHAPTER 18.20, RESIDENTIAL CODE AND ADOPTING BY REFERENCE THE 2010 EDITION OF THE CALIFORNIA RESIDENTIAL CODE

WHEREAS, the City Council of the City of Carlsbad finds that adoption of the 2010 Edition of the California Residential Code is in the best interest of the public and promotes the health, safety and welfare of its citizens; and

THEREFORE, the City Council of the City of Carlsbad, California, does ordain as follows:

SECTION 1: That Title 18, Chapter 18.20 of the Carlsbad Municipal Code, is added to read as follows:

**Chapter 18.20
RESIDENTIAL CODE**

Sections:

- 18.20.010 Adoption.**
- 18.20.020 Building Official designated.**
- 18.20.030 Permit fees.**

18.20.010 Adoption.

The 2010 California Residential Code including Appendix Chapter H, copyrighted by The California Building Standards Commission, is adopted by reference as the Residential Building Code of the City of Carlsbad.

18.20.020 Building Official designated.

The Building Official is designated as the person who shall enforce all the provisions of the California Residential Code.

18.20.030 Permit fees.

The fees for each permit shall be as set forth in the city's master fee schedule or by a resolution of the City Council.

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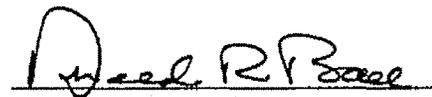
EFFECTIVE DATE: This ordinance shall be effective thirty days after its adoption; and the city clerk shall certify the adoption of this ordinance and cause it to be published at least once in a newspaper of general circulation in the City of Carlsbad within fifteen days after its adoption.

INTRODUCED AND FIRST READ at a regular meeting of the Carlsbad City Council on the 22nd day of March 2011, and thereafter.

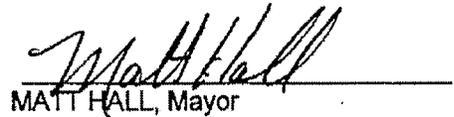
PASSED, APPROVED AND ADOPTED at a Regular Meeting of the City Council of the City of Carlsbad on the 5th day of April 2011 by the following vote to wit:

- AYES: Council Members Hall, Kulchin, Blackburn, Douglas, Packard.
- NOES: None.
- ABSENT: None.
- ABSTAIN: None.

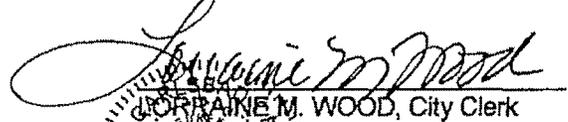
APPROVED AS TO FORM AND LEGALITY:

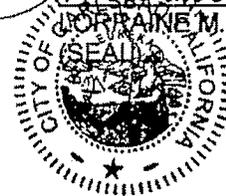


RONALD R. BALL, City Attorney


MATT HALL, Mayor

ATTEST:


JORRAJIE M. WOOD, City Clerk



ORDINANCE NO. CS-133

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AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CARLSBAD, CALIFORNIA, AMENDING CARLSBAD MUNICIPAL CODE TITLE 18, BY ADDING CHAPTER 18.21, GREEN BUILDING STANDARDS CODE TO ADOPT THE 2010 EDITION OF THE CALIFORNIA GREEN BUILDING STANDARDS CODE.

WHEREAS, the City Council of the City of Carlsbad finds that adoption of the 2010 Edition of the California Green Building Standards Code is in the best interest of the public and promotes the health, safety and welfare of its citizens.

WHEREAS, the City of Carlsbad has been in the forefront in recognizing the need for sustainable development in all areas of building construction practices and adoption of this ordinance will further enhance this policy.

THEREFORE, the City Council of the City of Carlsbad, California, does ordain as follows:

SECTION 1: That Title 18, Chapter 18.21 of the Carlsbad Municipal Code, is added to read as follows:

**Chapter 18.21
GREEN BUILDING STANDARDS CODE**

Sections:

- 18.21.010 Adoption.**
- 18.21.020 Building Official designated.**
- 18.21.030 Permit fees.**

18.21.010 Adoption.

The 2010 California Green Building Standards Code copyrighted by The California Building Standards Commission, is adopted by reference as the Green Building Standards Code of the City of Carlsbad.

18.21.020 Building Official designated.

The Building Official is designated as the person who shall enforce all the provisions of the California Green Building Standards Code.

18.21.030 Permit fees.

The fees for each permit shall be as set forth in the city's master fee schedule or by a resolution of the City Council.

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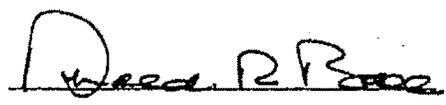
EFFECTIVE DATE: This ordinance shall be effective thirty days after its adoption; and the city clerk shall certify the adoption of this ordinance and cause it to be published at least once in a newspaper of general circulation in the City of Carlsbad within fifteen days after its adoption.

INTRODUCED AND FIRST READ at a regular meeting of the Carlsbad City Council on the 22nd day of March 2011, and thereafter

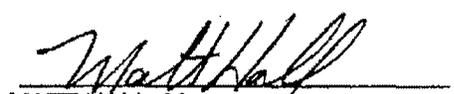
PASSED, APPROVED AND ADOPTED at a Regular Meeting of the City Council of the City of Carlsbad on the 5th day of April 2011 by the following vote to wit:

- AYES: Council Members Hall, Kulchin, Blackburn, Douglas, Packard.
- NOES: None.
- ABSENT: None.
- ABSTAIN: None.

APPROVED AS TO FORM AND LEGALITY:



RONALD R. BALL, City Attorney


MATT HALL, Mayor

ATTEST:


LORRAINE M. WOOD, City Clerk


ORDINANCE NO. CS-134

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF CARLSBAD, CALIFORNIA, AMENDING CARLSBAD MUNICIPAL CODE, TITLE 18, CHAPTER 18.30, ENERGY CONSERVATION REGULATIONS TO ADOPT THE 2010 EDITION OF THE CALIFORNIA ENERGY CODE.

WHEREAS, the City Council of the City of Carlsbad finds that adoption of the 2010 Edition of the California Energy Code is in the best interest of the public and promotes conservation, health, safety and welfare of its citizens.

THEREFORE, the City Council of the City of Carlsbad, California, does ordain as follows:

SECTION 1: That Title 18, Chapter 18.30 of the Carlsbad Municipal Code is amended to read as follows:

**Chapter 18.30
ENERGY CONSERVATION REGULATIONS**

Sections:

- 18.30.010 Adoption.**
- 18.30.020 Purpose and application.**
- 18.30.030 Building Official designated.**
- 18.30.040 Solar water heater preplumbing required.**
- 18.30.050 Permit fees.**

18.30.010 Adoption.

The California Energy Code, 2010 Edition, copyrighted by the California Building Standards Commission is adopted by reference as the energy code for the city of Carlsbad.

18.30.020 Purpose and application.

This chapter is intended to decrease dependence upon nonrenewable energy sources by encouraging and in some instances requiring the installation of devices, structures or materials for the conservation of energy on certain structures within the city. The provisions of this chapter are intended to supplement and not supersede other regulations and requirements imposed by this title.

18.30.030 Building Official designated.

The building official or authorized representative of the city is designated as the person who shall enforce the provisions of the California Energy Code as amended.

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18.30.040 Solar water heater preplumbing required.

- 1. All new residential units shall include plumbing specifically designed to allow the later installation of a system which utilizes solar energy as the primary means of heating domestic potable water. No building permit shall be issued unless the plumbing required pursuant to this section is indicated in the building plans. This section shall apply only to those residential dwelling units for which a building permit was applied for after the effective date of the ordinance adopting this chapter.
- 2. Exception. The provisions of this section can be modified or waived when it can be satisfactorily demonstrated to the building official that solar preplumbing is impractical due to shading, building orientation, construction constraints or configuration of the parcel.

18.30.050 Permit fees.

The fees for each permit shall be as set for in the city's master fee schedule or by a resolution of the City Council.

EFFECTIVE DATE: This ordinance shall be effective thirty days after its adoption; and the city clerk shall certify the adoption of this ordinance and cause it to be published at least once in a newspaper of general circulation in the City of Carlsbad within fifteen days after its adoption.

INTRODUCED AND FIRST READ at a regular meeting of the Carlsbad City Council on the 22nd day of March 2011, and thereafter

PASSED, APPROVED AND ADOPTED at a Regular Meeting of the City Council of the City of Carlsbad on the 5th day of April 2011 by the following vote to wit:

AYES: Council Members Hall, Kulchin, Blackburn, Douglas, Packard.

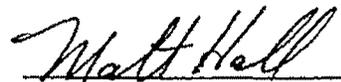
NOES: None.

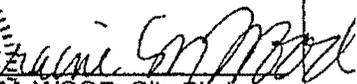
ABSENT: None.

ABSTAIN: None.

APPROVED AS TO FORM AND LEGALITY:


RONALD R. BALL, City Attorney


MATT HALL, Mayor

 
M. WOOD, City Clerk

Chapter 17.04
FIRE PREVENTION CODE

Sections:

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| 4 | 17.04.010 | Adoption. |
| 5 | 17.04.020 | <u>Chapter 1, Division II, Part 1, Section 101.5 Validity — Amended.</u> |
| 6 | 17.04.030 | <u>Chapter 1, Division II, Part 1, Section 102.5 Application of California Residential Code — Amended.</u> |
| 7 | 17.04.040 | <u>Chapter 1, Division II, Part 2, Section 109.3 Violation penalties — Amended.</u> |
| 8 | 17.04.050 | <u>Chapter 1, Division II, Part 2, Section 111.4 Failure to comply — Amended.</u> |
| 9 | 17.04.060 | Recovery of costs — Amended. |
| 10 | 17.04.070 | <u>Section 201.3 Terms defined in other codes — Amended.</u> |
| 11 | 17.04.080 | Section 202 Definitions - Fire hazard — Amended. |
| 12 | 17.04.090 | <u>Section 202 Definitions - High Fire Hazard Severity Zone— Amended.</u> |
| 13 | 17.04.100 | Section 202 Definitions - High-rise building — Amended. |
| 14 | 17.04.110 | Section 202 Definitions - Ignition-resistant material — Amended. |
| 15 | 17.04.130 | <u>Section 202 Definitions - Projections — Amended.</u> |
| 16 | 17.04.140 | <u>Section 202 Definitions - Vegetation — Amended.</u> |
| 17 | 17.04.150 | <u>Section 304.1.2 Definitions - Vegetation — Amended.</u> |
| 18 | 17.04.160 | <u>Section 307.5.1 Adult supervision at open fires — Amended.</u> |
| 19 | 17.04.170 | <u>Section 312.2 (5) Posts — Amended.</u> |
| 20 | 17.04.180 | Section 316.3 Pitfalls — Amended. |
| 21 | 17.04.190 | Section 316 General storage of firewood — Amended. |
| 22 | 17.04.200 | <u>Section 319 Maintenance of Fire Suppression Zones — Amended.</u> |
| 23 | 17.04.210 | <u>Section 503.2.1 Dimensions—Amended.</u> |
| 24 | 17.04.220 | Section 503.2.1.1 Minimum street width in fire hazard zones — Amended. |
| 25 | 17.04.230 | Section 503.2.1.2 Measurement of street width — Amended. |
| 26 | 17.04.240 | Section 503.2.1.3 Measurement of street width - Single Entry Development — Amended. |
| 27 | 17.04.250 | Section 503.2.3 Surface — Amended. |
| 28 | 17.04.260 | Section 503.2.4 Turning radius — Amended. |
| | 17.04.270 | Section 503.2.7 Grade — Amended. |
| | 17.04.280 | Section 503.3.1 Marking of fire apparatus access roads — Amended. |
| | 17.04.290 | Section 503.4.1 Fire access roadway design features — Amended. |
| | 17.04.300 | Section 503.6.1 Gates — Amended. |
| | 17.04.310 | Section 505.1 Street numbers — Amended. |
| | 17.04.320 | Section 505.3 Easement address signs — Amended. |
| | 17.04.330 | Section 505.4 Map / Directory — Amended. |
| | 17.04.340 | Section 505.5 Response map updates — Amended. |
| | 17.04.350 | <u>Section 506 Fire Service Features — Amended.</u> |
| | 17.04.360 | Section 507.3 Fire flow — Amended. |
| | 17.04.370 | Section 603.6.6 Spark arrestors — Amended. |
| | 17.04.380 | Section 603.8 Residential incinerators — Amended. |
| | 17.04.390 | <u>Section 605.11 Building Services and Systems — Amended.</u> |
| | 17.04.400 | <u>Section 901.4.5 Fire department connections — Amended.</u> |
| | 17.04.410 | <u>Section 903.2 Automatic fire extinguishing systems — Amended.</u> |
| | 17.04.420 | Section 903.2.1.1(1) Group A-1 — Amended. |

- 1 17.04.430 Section 903.2.1.3 (1) and (4) Group A-3 — Amended.
- 2 17.04.440 Section 903.2.1.4 (1) Group A-4 — Amended.
- 3 17.04.450 Section 903.2.3 (1) and (4) Group E — Amended.
- 4 17.04.460 Section 903.2.7 (1) and (3) Group M — Amended.
- 5 17.04.470 Section 903.2.9 (1) and (4) Group S-1 — Amended.
- 6 17.04.490 Section 903.3.3 Obstructed locations — Amended.
- 7 17.04.500 Section 903.4 Sprinkler System Monitoring and Alarms — Amended.
- 8 17.04.510 Section 907.2.11.4 Power Sources (Smoke Alarms) — Amended.
- 9 17.04.520 Section 907.2.11.5 Smoke Alarms — Amended.
- 10 17.04.530 Section 1407 Explosive Materials — Amended.
- 11 17.04.540 Section 1418 Construction site fuel modification — Amended.
- 12 17.04.550 Section 2201.1.1 Revised scope of Chapter 22, Sections 2205, 2206 and 2210 — Amended.
- 13 17.04.560 Table 2306.2 Footnote J — Amended.
- 14 17.04.570 Section 3301.1.1 Prohibiting storage of explosives — Amended.
- 15 17.04.580 Section 3301.1.2 Prohibiting the possession, sales and use of fireworks — Amended.
- 16 17.04.590 Section 3404.2.9.5.1—Prohibited/restricted locations for the storage of flammable and combustible liquids in above-ground tanks — Amended.
- 17 17.04.600 Section 3405.2.4 Class I, II and III liquids — Amended.
- 18 17.04.610 Section 3804.2 Maximum capacity for storage of liquefied petroleum gas (LPG) — Amended.
- 19 17.04.620 Section 3807.5 Securing tanks to ground (LPG) — Amended.
- 20 17.04.630 Appendix B Section B105; Subsection B105.1 Fire-Flow Requirements for Buildings — Amended.
- 21 17.04.640 Appendix B Section B105; Subsection B105.2 Fire-Flow Requirements for Buildings — Amended.
- 22 17.04.650 Appendix D Section D106; Subsection D106.1 Multiple-Family Residential Developments — Amended.
- 23 17.04.660 Appendix D Section D106; Subsection D106.1-Exception Multiple-Family Residential Developments — Amended.

18 **17.04.010 Adoption.**

19 The City of Carlsbad adopts by reference the 2010 Edition of the California Fire Code, two
 20 copies of which are on file in the office of the City Clerk, known as California Code of
 21 Regulations, Title 24, Part 9, except for the following amendments thereto. The City amends the
 22 provisions of the 2010 California Fire Code to include the requirements of the 2010 Edition of
 the International Fire Code including Appendix Chapters 4 and Appendices B (as amended),
 BB, C, D (as amended), F, G, H, I and J as published by the International Code Council for
 those occupancies not subject to the 2010 California Fire Code. As adopted and amended
 herein, the 2010 California Fire Code becomes the fire code of the City of Carlsbad.

23 **17.04.020 Chapter 1, Division II, Part 1, Section 101.5 Validity—Amended.**

24 Chapter 1, Division II, Part 1, Section 101.5 of the 2010 California Fire Code is amended
 25 to read as follows:

26 The City Council of the City of Carlsbad hereby declares that should any section, paragraph,
 27 sentence or word of this Ordinance or of the City of Carlsbad Municipal Code hereby adopted
 be declared for any reason to be invalid, it is the intent of the City Council that it would have

1 passed all other portions of this Ordinance independently of the elimination here from of any
2 such portion as may be declared invalid.

3 **17.04.030 Chapter 1, Division II, Part 1, Section 102.5 Application of California**
4 **Residential Code — Amended.**

5 Chapter 1, Division II, Part 1, Section 102.5 of the 2010 California Fire Code is amended
6 to read as follows:

7 Where structures are designed and constructed in accordance with the *California*
8 *Residential Code*, the provisions of this code shall apply as follows:

- 9 1. Construction and designed provisions: Provisions of this code pertaining to the exterior of
10 the structure shall apply including, but not limited to, premises identification, fire apparatus
11 access, water supplies, and Section 903.2. Where interior or exterior systems or devices are
12 installed, construction permits required by Section 105.7 of this code shall also apply.
- 13 2. Administrative, operational, and maintenance provisions: all such provisions of this code
14 shall apply.

15 **17.04.040 Chapter 1, Division II, Part 2, Section 109.3 Violation penalties — Amended.**

16 Chapter 1, Division II, Section 109.3 of the 2010 California Fire Code is amended to read as
17 follows:

18 Any person who violates any of the provisions of this code hereby adopted or fails to comply
19 therewith, or who violates or fails to comply with any order made there-under, or who builds in
20 violation of any detailed statement or specification or plans submitted and approved there-
21 under, or any certificate or permit issued there-under, and from which no timely appeal has
22 been taken, or who fails to comply with such an order as affirmed or modified by the City
23 Attorney of the City of Carlsbad or by a court of competent jurisdiction within the time fixed
24 herein, shall severally for each and every violation and noncompliance respectively, be guilty of
25 a misdemeanor, punishable by a fine not exceeding \$1,000 or by imprisonment in County Jail
26 not exceeding six months, or both.

27 The imposition of one penalty of any violation shall not excuse the violation or permit it to
28 continue; and all such persons shall be required to correct or remedy such violations or defects
within a reasonable time; and when not otherwise specified, each day that prohibited conditions
are maintained shall constitute a separate offense. The application of the above penalty shall
not be held to prevent the enforced removal of prohibited conditions.

1 **17.04.050 Chapter 1, Division II, Part 2, Section 111.4 Failure to comply—Amended.**

2 Chapter 1, Division II, Section 111.4 of the 2010 California Fire Code is amended to read
3 as follows:

4 Any person, who continues any work after having been served with a stop work order, except
5 such work as that the person is directed to perform to remove a violation or unsafe condition,
6 shall be liable for a fine of not less than \$250 or more than \$1,000.

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1 **17.04.060 Recovery of costs - Amended.**

2 The City shall be entitled to recover the cost of emergency services as described in subsections
3 1 through 5 below. Service costs shall be computed by the fire department under the direction of
4 the city finance department and shall include the costs of personnel, equipment facilities,
5 materials and other external resources.

- 6 1. Any person or corporation who allows a hazard to exist on property under control of that
7 person or corporation, after having been ordered by the fire department or other city
8 department to abate that hazard, is liable for the cost of services provided by the fire
9 department should an emergency arise as a result of said unabated hazard.
- 10 2. Any person or corporation whose negligence causes an incident to occur on any public or
11 private street, driveway or highway, which, for the purposes of life, property or environmental
12 protection, places a service demand on the city fire department resources beyond the scope
13 of routine service delivery, shall be liable for all costs associated with that service demand.
- 14 3. Any person or corporation responsible for property equipped with fire protection or detection
15 devices which, due to malfunction, improper manipulation or negligent operation causes a
16 needless response by the fire department to the property shall, for a period of twelve months
17 after written notification by the fire prevention bureau, be liable for all future costs associated
18 with each subsequent needless response caused by those devices.
- 19 4. Any person or corporation who conducts unlawful activity which results in fire, explosion,
20 chemical release or any other incident to which the fire department responds for the purpose
21 of performing services necessary for the protection of life, property or the environment, shall
22 be liable for the costs associated with the delivery of those services.
- 23 5. When, in the interest of public safety, the fire chief, assigns fire department employees as
24 standby personnel at any event, or upon any premise, the person or corporation responsible
25 for the event or premises shall reimburse the fire department for all costs associated with the
26 standby services.

18 **17.04.070 Section 201.3 Terms defined in other codes—Amended.**

19 Section 201.3 of the 2010 California Fire Code is amended to read as follows:

20 Where terms are not defined in this code and are defined in the California Building Code,
21 California Mechanical Code, California Plumbing Code, California Residential Code and the
22 International Urban-Wildland Interface Code, such terms shall have the meanings ascribed to
23 them as in those codes.

22 **17.04.080 Section 202 Definitions - Fire hazard—Amended.**

23 Section 202 of the 2010 California Fire Code is amended to read as follows:

24 "Fire hazard" is any thing or act that increases or could cause an increase of the hazard or
25 menace of fire to a greater degree than customarily recognized as normal by persons in the
26 public service regularly engaged in preventing, suppressing or extinguishing fire or any thing or
27 act which could obstruct, delay, hinder or interfere with the operations of the fire department or
28 the egress of occupants in the event of fire.

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1 **17.04.090 Section 202 Definitions - High Fire Hazard Severity Zone —Amended.**

2 Section 202 of the 2010 California Fire Code is amended to read as follows:

3 "High Fire Hazard Severity Zone" is any geographic area designated in accordance with
4 California Government Code § 51178, which contains the type and condition of vegetation,
5 topography, weather and structure density which potentially increases the possibility of wildland
6 conflagrations.

6 **17.04.100 Section 202 Definitions – High-rise building — Amended.**

7 Section 202 of the 2010 California Fire Code is amended to read as follows:

8 "High-rise building," as used in this code: "Existing high-rise building" means a high-rise
9 building, the construction of which is commenced or completed prior to July 1, 1974. "High-rise
10 building" means every building of any type of construction or occupancy having floors used for
11 human occupancy located more than 55 feet above the lowest floor level having building access
12 (see California Building Code, Section 403.1.2), except buildings used as hospitals as defined in
13 Health and Safety Code Section 1250. "New high-rise building" means a high-rise building, the
14 construction of which is commenced on or after July 1, 1974.-

11 **17.04.110 - Section 202 Definitions – Ignition-resistant material—Amended.**

12 Section 202 of the 2010 California Fire Code is amended to read as follows:

13 "Ignition-resistant material" is defined as any product which, when tested in accordance with
14 ASTM E84 for a period of 30 minutes, shall have a flame spread of not over 25 feet, and show
15 no evidence of progressive combustion. In addition, the flame front shall not progress more than
16 10.5 feet (3,200 mm) beyond the centerline of the burner at any time during the test.

16 Materials shall pass the accelerated weathering test and be identified as Exterior type, in
17 accordance with ASTM D 2898 and ASTM D 3201.

17 All materials shall bear identification showing the fire performance rating thereof. That
18 identification shall be issued by ICC—ES or a testing facility recognized by the State Fire
19 Marshal having a service for inspection of materials at the factory.

19 Fire-Retardant-Treated Wood or noncombustible materials as defined in Section 202 shall
20 satisfy the intent of this section.

21 The enforcing agency may use other definitions of "ignition-resistant material" that reflect wildfire
22 exposure to building materials and/or their materials performance in resisting ignition.

22 **17.04.130 Section 202 Definitions – Projections—Amended.**

23 Section 202 of the 2010 California Fire Code is amended to read as follows:

24 "Projections" are defined as cornices, eave overhangs, exterior balconies and similar
25 projections extending beyond the floor area. Projections shall conform to the requirements of
26 Section 704.2 and Section 1406 of the California Building Code. Exterior egress balconies and
27 exterior exit stairways shall also comply with Section 1014.5 and 1023.1 of the California
28 Building Code, respectively. Projections shall not extend beyond the distance determined by
the following two methods, whichever results in the lesser projection:

- 1 1. A point one-third the distance to the lot line from an assumed vertical plane located where
2 protected openings are required in accordance with California Building Code Section 704.8,
3 but not less than five feet from the lot line.
- 4 2. Group R-3, and Group U when used as accessory to Group R-3, shall be constructed not
5 less than five feet from any lot line without having a fire resistance rated exterior wall and
6 openings that are protected as set forth in Table 5-A of the California Building Code.

7 **17.04.140 Section 202 Definitions – Vegetation — Amended.**

8 Section 202 of the 2010 California Fire Code is amended to read as follows:

9 “Vegetation” means weeds, grass, vines or other organic (cellulose) growth that is capable of
10 being ignited and endangering property, and such vegetation shall be cut down and removed by
11 the owner or occupant of the premises. Vegetation clearance requirements in urban-wildland
12 interface areas shall be in accordance with City of Carlsbad standards.

13 **17.04.150 Section 304.1.2 Definitions – Vegetation — Amended.**

14 Chapter 3, Section 304.1.2 of the 2010 California Fire Code is amended to read as
15 follows:

16 “Vegetation” means weeds, grass, vines or other organic (cellulose) growth that is capable of
17 being ignited and endangering property, and such vegetation shall be cut down and removed by
18 the owner or occupant of the premises. Vegetation clearance requirements in urban-wildland
19 interface areas shall be in accordance with City of Carlsbad standards.

20 **17.04.160 Section 307.5.1 Adult supervision at open fires—Amended.**

21 Chapter 3 of the 2010 California Fire Code is amended to add Section 307.5.1 to read
22 as follows:

23 An adult must be present at all times to watch and tend outdoor fires.

24 **17.04.170 Section 312.2 (5) Posts— Amended.**

25 Chapter 3, Section 312.2(5) of the 2010 California Fire Code is amended to read as
26 follows:

27 Posts shall be located not less than five feet (152.5 mm) from the protected object.

28 **17.04.180 316.3 Pitfalls—Amended.**

Chapter 3, Section 316.3 of the 2010 California Fire Code is amended to read as
follows:

When pitfalls are installed in violation of this code, the California Penal Code shall be used for
penalties, and violations of this section.

17.04.190 Section 318 General storage of firewood—Amended.

Chapter 3, Section 318 of the 2010 California Fire Code is amended to add the
following:

1 Firewood shall not be stored in unenclosed spaces beneath buildings or structures, or on decks
2 or under eaves, canopies or other projections or overhangs. When required by the fire code
3 official, storage of firewood material stored in the defensible space shall be located a minimum
4 of 30 feet (9,144 mm) from structures and separated from the crown of trees by a minimum of
5 15 feet (4,572 mm), measured horizontally. Firewood and combustible materials not for
6 consumption on the premises shall be stored so as to not pose a hazard.

7 **17.04.200 Section 319 Maintenance of Fire Suppression Zones —Amended.**

8 Chapter 3, Section 319 of the 2010 California Fire Code is amended to add the
9 following:

10 Sec. 319.1 When required. An application for a development permit for any property located in a
11 wildfire risk area shall be required to have a Fire Protection Plan (FPP) approved by the fire
12 code official, as part of the approval process.

13 Section 319.2 Content. The FPP shall consider location, topography, geology, aspect,
14 combustible vegetation (fuel types), climatic conditions and fire history. The plan shall address
15 the following in terms of compliance with applicable codes and regulations including but not
16 limited to: water supply, primary access, secondary access, travel time to nearest serving fire
17 station, structural ignitability, structure set back, ignition-resistive building features, fire
18 protection systems and equipment, impacts to existing emergency services, defensible space
19 and vegetation management.

20 Section 319.4 Maintenance of defensible space: Any person owning, leasing, controlling,
21 operating or maintaining a building or structure required to establish a fuel modification zone
22 pursuant to City of Carlsbad development standards shall maintain the defensible space. The
23 Fire Authority Having Jurisdiction (FAHJ) may enter the property to determine if the person
24 responsible is complying with this section. The FAHJ may issue an order to the person
25 responsible for maintaining the defensible space directing the person to modify or remove non-
26 fire resistant vegetation from defensible space areas, remove leaves, needles and other dead
27 vegetative material from the roof of a building or structure, maintain trees as required by this
28 section or to take other action the FAHJ determines is necessary to comply with the intent of
this section.

Section 319.5 Responsibility: Persons owning, leasing, controlling, operating or maintaining
buildings or structures are responsible for maintenance of defensible spaces. Maintenance of
the defensible space shall be annually or as determined by the FAHJ and may include, but not
be limited to, the modification or removal of non-fire resistive vegetation and keeping leaves,
needles and other dead vegetative material regularly removed from roofs of buildings and
structures.

Section 319.6. Trees: Crowns of trees located within defensible space shall maintain a minimum
horizontal clearance of 10 feet for fire resistant trees and 30 feet for non-fire resistive trees.
Mature trees shall be pruned to remove limbs one-third the height or six feet, whichever is less,
above the ground surface adjacent to the trees. Dead wood and litter shall be regularly removed
from trees. Ornamental trees shall be limited to groupings of two to three trees with canopies for
each grouping separated horizontally as described in the International Wildland Urban Interface
Code (IWUIC).

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1 **17.04.210 Section 503.2.1 Dimensions—Amended.**

2 Chapter 5, Section 503.2.1 of the 2010 California Fire Code is amended to read as
3 follows:

4 Fire apparatus access roads shall have an unobstructed width of not less than 24 feet (7,315
5 mm) exclusive of shoulders, except for approved security gates in accordance with section
6 503.6 and an unobstructed vertical clearance of not less than 13.5 feet (4,115 mm).

6 **17.04.220 Section 503.2.1.1 Minimum street width in fire hazard zones— Amended.**

7 Chapter 5, Section 503.2.1.1 of the 2010 California Fire Code is amended to add the
8 following:

9 Public and private streets shall have a minimum unobstructed width of 28 foot clear travel way
10 where adjacent lots are located within designated Fire Hazard Zones/Fire Suppression Zone.

10 **17.04.230 Section 503.2.1.2 Measurement of street width— Amended.**

11 Chapter 5, Section 503.2.1.2 of the 2010 California Fire Code is amended to add the
12 following:

13 Street widths are to be measured from face-of-curb to face-of-curb on streets with curb and
14 gutter, and from flow-line to flow-line on streets with rolled curbs.

14 **17.04.240 Section 503.2.1.3 Measurement of street width—Single Entry Development**
15 **- Amended.**

16 Chapter 5, Section 503.2.1.3 of the 2010 California Fire Code is amended to read as
17 follows:

- 18 1. Single entry developments may be permitted with special approval of the Fire Code Official.
19 A 36 foot curb-to-curb residential street may be provided for a street that serves 24 or less
20 dwelling units. If adjacent lots contain any portion of a Fire Hazard Zone/Fire Suppression
21 Zone within the property line, a 42 foot curb-to-curb street is required.
- 22 2. With special approval of the Fire Code Official and the City Engineer, 40 foot curb-to-curb
23 residential street may serve 50 or less dwelling units. If adjacent lots contain any portion of a
24 Fire Hazard Zone/Fire Suppression Zone, a 42 foot curb-to-curb distance is required.
- 25 3. With approval of the Fire Code Official and the City Engineer, a four lane secondary arterial
26 with a raised median or major arterial may be allowed when all of the following conditions
27 are met:
 - 28 a. The length of street does not exceed one-half mile.
 - b. Traffic volume at entrance does not exceed 3,000 ADT.
 - c. All buildings are equipped with automatic fire sprinkler systems.
4. With approval of the Fire Code Official and City Engineer, a 52 foot wide curb-to-curb
5. industrial street and may be allowed when all of the following conditions are met:
 - a. The length of street does not exceed one-half mile.

1 b. Traffic volume at entrance does not exceed 3,000 ADT.

2 c. All buildings are equipped with automatic fire sprinkler systems.

3 **17.04.250 Section 503.2.3 Surface— Amended.**

4 Section 503.2.3 of the 2010 California Fire Code is amended to read as follows:

5 Fire apparatus access roads shall be designed and maintained to support not less than 75,000
6 lbs. (unless authorized by the Fire Code Official) and shall be provided with an approved paved
7 surface so as to provide all-weather driving capabilities.

8 **17.04.260 - Section 503.2.4 Turning radius— Amended.**

9 Section 503.2.4 of the 2010 California Fire Code is amended to read as follows:

10 The inside turning radius for an access road shall be 28 feet or greater with a five foot back of
11 curb clearance for bumper overhang. The outside turning radius for an access road shall be a
12 minimum of 46 feet. California Department of Transportation Highway Design Manual, Figure
13 404.5F shall be utilized.

14 **17.04.270 Section 503.2.7 Grade—Amended.**

15 Section 503.2.7 of the 2010 California Fire Code is amended to read as follows:

16 The gradient for a fire apparatus access roadway shall not exceed 10 percent (5.7 degrees).
17 The grade may be increased to a maximum of 15 percent (8.5 degrees) for approved lengths of
18 access roadways when all structures served by the access road are protected by automatic fire
19 sprinkler systems. Cross slope shall not be greater than two percent for paved access
20 roadways. Grades exceeding 10 percent (incline or decline) shall not be permitted without
21 mitigation.

22 Minimal mitigation shall be the installation of fire sprinkler systems and a surface of Portland
23 cement concrete (PCC), with a deep broom finish perpendicular to the direction of travel, or
24 equivalent, to enhance traction.

25 The Fire Code Official may require additional mitigation measures where deemed appropriate.
26 The angle of departure and angle of approach of a fire access roadway shall not exceed 12
27 percent (7 degrees) or as approved by the Fire Code Official.

28 **17.04.280 Section 503.3.1 Marking of fire apparatus access roads — Amended.**

 Section 503.1 of the 2010 California Fire Code is amended to add the following:

 When required by the Fire Code Official, one or more of the following methods shall be used to
 identify fire apparatus access roads and prohibit their obstruction:

1. The entire length of the road shall be marked by approved signs posted at intervals no greater than 100 feet, which identify the road as a "Fire lane" and state the prohibition of parking therein. The sign shall also warn that vehicles in violation are subject to citation or removal. Such signs shall be posted in a permanent manner at a height no greater than nine feet and no less than seven feet; or,

- 1 2. Standard curbs bordering fire access roads shall have the words "NO PARKING FIRE
2 LANE" painted upon their horizontal and vertical surfaces at intervals of not more than 25
3 feet. Letters shall be of block style, minimum five inches in height with a stroke of not less
4 than three-fourths inch, and shall be white on a red background. The background shall
5 extend at least six inches beyond the first and last letters of the text; or,
6
- 7 3. A monument type sign may be placed at the entrance to a private street which provides
8 information as stated in sub-section 1 above, with additional wording necessary to inform
9 approaching vehicles of parking restrictions. Such signs must be approved by the Police
10 Department and the Fire Code Official prior to installation.

11 **17.04.290 Section 503.4.1 Fire access roadway design features—Amended.**

12 Chapter 5, Section 503.4.1 of the 2010 California Fire Code is amended to add the
13 following:

14 Roadway design features (speed bumps, speed humps, speed control dips, etc.) which may
15 interfere with emergency apparatus response times shall not be installed on fire access
16 roadways, unless they meet design criteria approved by the Fire Code Official.

17 **17.04.300 Section 503.6.1 Gates —Amended.**

18 Chapter 5, Section 503.6.1 of the 2010 California Fire Code is amended to add the
19 following:

20 All gates or other structures or devices which could obstruct fire access roadways or otherwise
21 hinder emergency operations are prohibited unless they meet standards approved by the Fire
22 Code Official, and receive plan approval by the Fire Code Official. All automatic gates across
23 fire access roadways and driveways shall be equipped with an approved emergency key-
24 operated switch which overrides all command functions and opens the gate(s). Gates accessing
25 more than four residences or residential lots, or gates accessing hazardous, institutional,
26 educational or assembly occupancy group structures, shall also be equipped with approved
27 emergency traffic control-activating strobe light sensor(s), or other devices approved by the Fire
28 Code Official, which will activate the gate on the approach of emergency apparatus and shall be
provided with a battery back-up or manual mechanical disconnect in case of power failure.

All automatic gates accessing more than four residences or residential lots must meet fire
department policies deemed necessary by the Fire Code Official for rapid, reliable access. All
gates providing access from a road to a driveway shall be located a minimum of 30 feet from the
nearest edge of the roadway and the driveway width shall be 36 feet wide at the entrance on
roadways of 24 feet or less of the traffic lane(s) serving the gate.

Automatic gates serving more than one dwelling or residential lot in existence at the time of
adoption of this Ordinance are required to install an approved emergency key-operated switch,
or other mechanism approved by the Fire Code Official, at an approved location, which
overrides all command functions and opens the gate(s). Property owners must comply with this
requirement within 90 days of written notice to comply.

Where this section requires an approved key-operated switch, it shall be dual keyed or dual
switches shall be provided to facilitate access by law enforcement personnel. Electric gate
openers, where provided, shall be listed in accordance with UL 325. Gates intended for
automatic operation shall be designed, constructed and installed to comply with the
requirements of ASTM F2200.

1 School grounds may be fenced and gates therein may be equipped with locks, provided that
2 safe dispersal areas, based on three square feet per occupant, are located between the school
3 and the fence. Such required safe dispersal areas shall be located at least 50 feet from school
4 buildings. Every public and private school shall conform to Education Code section 32020,
5 which states:

6 The governing board of every public school district and the governing authority of every private
7 school, which maintains any building used for the instruction or housing of school pupils on land
8 entirely enclosed (except for building walls) by fences or walls, shall, through the cooperation of
9 local law enforcement and fire protection agencies having jurisdiction of the area, provide for the
10 erection of gates in these fences or walls.

11 The gates shall be of sufficient size to permit the entrance of ambulances, police equipment and
12 fire-fighting apparatus used by law enforcement and fire protection agencies. There shall be no
13 less than one access gate and there shall be as many of these gates as needed to ensure
14 access to all major buildings and ground areas. If these gates are equipped with locks, the
15 locking devices shall be designed to permit ready entrance by the use of chain or bolt-cutting
16 devices. Electric gate openers, where provided, shall be listed in accordance with UL 325.
17 Gates intended for automatic operation shall be designed, constructed and installed to comply
18 with the requirements of ASTM F2200.

19 **17.04.310 Section 505.1 Street numbers — Amended.**

20 Section 505.1 of the 2010 California Fire Code is amended to read as follows:

21 Approved numbers and/or addresses shall be placed on all new and existing buildings and at
22 appropriate additional locations as to be plainly visible and legible from the street or roadway
23 fronting the property from either direction of approach. Said numbers shall contrast with their
24 background, and shall meet the following minimum standards as to size:

25 Single family residences: four inches high with a three-eighths inch stroke; for unit identification
26 of multi-family residential buildings: six inches high with a one-half inch stroke; for commercial,
27 industrial and multi-family residential buildings: minimum 12 inches high with a 1 ½ inch stroke.

28 Additional numbers shall be required where deemed necessary by the Fire Code Official, such
as rear access doors, building corners, and entrances to commercial centers. The Fire Code
Official may establish different minimum sizes for numbers for various categories of projects.

Multi-unit buildings: suite/apartment numbers shall be placed on or adjacent to the primary
entrance for each suite/apartment, and any other door providing access to fire department
personnel during an emergency.

Multiple residential and commercial units having entrance doors not visible from the street or
road shall, in addition to numbers placed adjacent to the entry door, shall have approved
numbers grouped for all units within each structure and positioned to be plainly visible from the
street, road or access path.

Multi-building clusters: shall place approved numbers or addresses on the front elevation(s) of
all buildings that form the cluster.

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1 **17.04.320 Section 505.3 Easement address signs — Amended.**

2 Chapter 5, Section 505.3 of the 2010 California Fire Code is amended to add the
3 following:

4 All easements which are not named differently from the roadway, from which they originate,
5 shall have an address sign installed and maintained, listing all street numbers occurring on that
6 easement and shall be located where the easement intersects the named roadway. Minimum
7 size of numbers on that sign shall be four inches in height with a minimum stroke of three-
8 eighths inch, and shall contrast with the background.

7 **17.04.330 Section 505.4 Map/directory—Amended.**

8 Chapter 5, Section 505.4 of the 2010 California Fire Code is amended to add the
9 following:

10 A lighted directory map, meeting current fire department standards, shall be installed at each
11 driveway entrance to multiple unit residential projects and mobile home parks where the number
12 of units in such projects exceeds 15 units.

11 **17.04.340 Section 505.5 Response map updates —Amended.**

12 Chapter 5, Section 505.5 of the 2010 California Fire Code is amended to add the
13 following:

14 Any new development, which necessitates updating of emergency response maps by virtue of
15 new structures, hydrants, roadways or similar features, shall be required to provide map
16 updates in a format approved by the fire department. The responsible party shall be charged a
17 reasonable fee for updating the City emergency response maps.

16 **17.04.350 Section 506 Fire Service Features – Amended.**

17 Chapter 5, Section 506 of the 2010 California Fire Code is amended to read as follows:

18 Section 506.1 Key Boxes: When access to or within a structure or an area is unduly difficult
19 because of secured openings or where immediate access is necessary for life saving or
20 firefighting purposes, the Fire Code Official is authorized to require a key box to be installed in
21 an accessible location. The key box shall be a type approved by the Fire Code Official and shall
22 contain keys to gain necessary access as required by the Fire Code Official.

21 Section 506.1.2 Emergency Key Access: All central station-monitored fire detection systems
22 and fire sprinkler systems shall have an approved emergency key access box on site in an
23 approved location. The owner or occupant shall provide and maintain current keys for the
24 structure(s) for fire department placement in the box, and shall notify the fire department in
25 writing when the building is re-keyed.

24 All appliances for all central station-monitored fire detection systems and fire sprinkler systems
25 shall have an approved single access key at the direction of the Fire Code Official.

26 **17.04.360 Section 507.3 Fire flow—Amended.**

27 Section 507.3 of the 2010 California Fire Code is amended to read as follows:

65

1 Fire flows shall be based on Appendix B (as amended) of the 2010 California Fire Code.
2 Consideration should be given to increasing the gallons per minute set forth in Appendix B (as
3 amended) to protect structures of extremely large square footage and for such reasons as: poor
access roads; grade and canyon rims; hazardous brush; and response times greater than five
minutes by a recognized fire department or fire suppression company.

4 In wildfire risk areas as defined in Section 202, the main capacity for new subdivisions shall not
be less than 2,500 gallons per minute, unless otherwise approved by the Fire Code Official.

5 If fire flow increases are not feasible, the Fire Code Official may require alternative design
6 standards such as: alternative types of construction providing a higher level of fire resistance;
fuel break requirements which could include required irrigation; modified access road
7 requirements; specified setback distances for building sites addressing canyon rim
developments and hazardous brush areas; and other requirements authorized by the Carlsbad
8 Municipal Code and as specified by the Fire Code Official.

9 **17.04.370 Section 603.6.6 Spark arrestors — Amended.**

10 Section 603.6.6 of the 2010 California Fire Code is amended to add the following:

11 An approved spark arrester shall be provided per California Residential Code (CRC) Section
12 1003.9.1.

13 **17.04.380 Section 603.8 Residential incinerators—Amended.**

14 Section 603.8 of the 2010 California Fire Code is amended to read as follows:

15 Residential incinerators shall be prohibited.

16 **17.04.390 Section 605.11 Building Services and Systems Photovoltaic Power**
Systems – Amended.

17 Chapter 6, Section 605.11 of the 2010 California Fire Code is amended to add the
18 following:

19 Sec. 605.11 Solar photovoltaic power systems: Solar photovoltaic power systems shall be
installed in accordance with this code, the Building Code and the Electrical Code.

20 Exception: Detached Group U non-habitable structures such as parking shade structures,
21 carports, solar trellises and similar type structures are not subject to the requirements of this
section.

22 Sec. 605.11.1 Marking: Marking is required on all interior and exterior conduit, enclosures,
23 raceways, cable assemblies, junction boxes, combiner boxes and disconnects.

24 Sec. 605.11.1.1 Materials: The materials used for marking shall be reflective, weather-resistant
25 and suitable for the environment. Marking as required in sections 605.11.1.2 through 605.11.1.4
shall have all letters capitalized with a minimum height of three-eighths inch white on red
background.

26 Sec. 605.11.1.2 Marking content: The marking shall contain the words “WARNING:
27 PHOTOVOLTAIC POWER SOURCE.”

1 Sec. 605.11.1.3 Main service disconnect: The marking shall be placed adjacent to the main
2 service disconnect in a location clearly visible from the location where the disconnect is
3 operated.

4 Sec. 605.11.1.4 Location of marking: Marking shall be placed on all interior and exterior DC
5 conduit, raceways, enclosures and cable assemblies every 10 feet, within one foot of all turns or
6 bends and within one foot above and below all penetrations of roof/ceiling assemblies and all
7 walls and barriers.

8 Sec. 605.11.2 Locations of DC conductors: Conduit, wiring systems and raceways for
9 photovoltaic circuits shall be located as close as possible to the ridge, hip or valley and from the
10 hip or valley as directly as possible to an outside wall to reduce trip hazards and maximize
11 ventilation opportunities. Conduit runs between sub arrays and to DC combiner boxes shall be
12 installed in a manner that minimizes the total amount of conduit on the roof by taking the
13 shortest path from the array to the DC combiner box. The DC combiner boxes shall be located
14 such that conduit runs are minimized in the pathways between arrays. DC wiring shall be
15 installed in metallic conduit or raceways when located within enclosed spaces within a building.
16 Conduit shall run along the bottom of load bearing members.

17 Sec. 605.11.3 Access and pathways: Roof access, pathways and spacing requirements shall be
18 provided in order to ensure access to the roof, provide pathways to specific areas of the roof,
19 provide for smoke ventilation operations, and to provide emergency egress from the roof.

20 Exceptions:

21 1. Requirements to ridge, hips and valleys do not apply to roof slopes of two units vertical in 12
22 units horizontal (2:12) or less.

23 2. Residential structures shall be designed so that each array is no greater than 150 feet by 150
24 feet in either axis.

25 3. The Fire Code Official may allow modules to be located up to the ridge when an alternative
26 ventilation method acceptable to the Fire Code Official has been provided or where the Fire
27 Code Official has determined vertical ventilation techniques will not be employed.

28 Sec. 605.11.3.1 Roof access points: Roof access points shall be defined as an area that does
not place ground ladders over openings such as windows or doors, and are located at strong
points of building construction in locations where the access point does not conflict with
overhead obstructions such as tree limbs, wires or signs.

Sec. 605.11.3.2 Residential systems for one- and two-family residential dwellings: Access shall
be provided in accordance with Sections 605.11.3.2.1 through 605.11.3.2.4.

Sec 605.11.3.2.1 Residential buildings with hip roof layouts: Modules shall be located in a
manner that provides a 3 foot wide clear access pathway from the eave to the ridge on each
roof slope where modules are located. The access pathway shall be located at a structurally
strong location on the building capable of supporting the live load of fire fighters accessing the
roof.

Sec. 605.11.3.2.2 Residential buildings with a single ridge: Modules shall be located in a
manner that provides two, three foot wide access pathways from the eave to the ridge on each
roof slope where the modules are located.

1 Sec. 605.11.3.2.3 Hips and valleys: Modules shall be located no closer than 18 inches to a hip
2 or a valley if modules are to be placed on both sides of a hip or valley. If the modules are to be
3 located on only one side of a hip or valley that is of equal length then the modules shall be
4 permitted to be placed directly adjacent to the hip or valley.

5 Sec. 605.11.3.2.4 Smoke ventilation: Modules shall be located no higher than three feet below
6 the ridge in order to allow for fire department smoke ventilation operations.

7 Sec. 605.11.3.3 All other occupancies: Access shall be provided in accordance with Sections
8 605.11.3.3.1 through 605.11.3.3.3.

9 Exception: Where it is determined by the Fire Code Official that the roof configuration is similar
10 to a one- or two-family dwelling, the Fire Code Official may approve the residential access and
11 ventilation requirements provided in Sections 605.11.3.2.1 through 605.11.3.2.4

12 Sec. 605.11.3.3.1 Access: There shall be a minimum six foot wide clear perimeter around the
13 edges of the roof.

14 Exception: If either axis of the building is 250 feet or less, there shall be a minimum four foot
15 wide clear perimeter around the edges of the roof.

16 Sec. 605.11.3.3.2 Pathways: The solar photovoltaic installation shall be designed to provide
17 designated pathways. The pathways shall meet the following requirements:

18 1. Pathways shall be over areas capable of supporting the live load of fire fighters accessing the
19 roof.

20 2. Center line axis pathways shall be provided in both axes of the roof. Center line axis
21 pathways shall run where the roof structure is capable of supporting the live load of fire
22 fighters accessing the roof.

23 3. Pathways shall be a straight line not less than four feet clear to skylight and/or ventilation
24 hatches.

25 4. Pathways shall be a straight line not less than four feet clear to roof standpipes.

26 5. Pathways shall provide not less than four feet clear around the roof access hatch with at least
27 one pathway not less than four feet clear to a parapet or roof edge.

28 Sec. 605.11.3.3.3 Smoke ventilation: The solar photovoltaic installation shall be designed to
meet the following requirements:

1. Arrays shall be no greater than 150 feet in distance in either axis in order to create
opportunities for smoke ventilation operations.

2. Smoke ventilation options between array sections shall be one of the following:

a. A pathway eight feet or greater in width;

b. A four feet or greater in width pathway and bordering roof skylights or smoke and
heat vents

c. A four feet or greater in width pathway and bordering four foot by eight foot venting
cutouts every 20 feet on alternating sides of the pathway.

1 Sec. 605.11.4 Ground-mounted photovoltaic arrays: Ground-mounted photovoltaic array
2 installations shall meet the requirements of Sections 605.11.4.1.

3 Sec. 605.11.4.1 Access: Access to ground-mounted photovoltaic arrays, associated equipment
4 structures and operations/maintenance buildings shall be per Section 503.

5 Exception: Private residential systems where the energy generated is primarily for on-site use.

6 Sec. 605.11.4.1.1 Perimeter access roadway: Ground-mounted photovoltaic arrays 10 acres
7 and larger in size shall be provided with an access roadway around the perimeter of the project.
8 The perimeter access roadway shall be installed per Section 503.

9 Sec. 605.11.4.2 Fuel modification: Combustible vegetation within the array and to a distance of
10 20 feet from the array and associated equipment shall be reduced to a height of no more than
11 six inches. Operation/maintenance buildings shall be provided with a fuel modification zone per
12 Section 319.

13 **17.04.400 Section 901.4.5 Fire department connections — Amended.**

14 Section 901.4.5 of the 2010 California Fire Code is amended to add the following:

15 Fire hose threads used in connection with fire-extinguishing systems shall be National Standard
16 Thread or as approved by the Fire Code Official. The location of fire department hose
17 connections and control valves shall be approved by the Fire Code Official.

18 **17.04.410 Section 903.2 Automatic fire extinguishing systems — Amended.**

19 Section 903.2 of the 2010 California Fire Code is amended to read as follows:

20 When required by any Title of the Carlsbad Municipal Code, an approved automatic sprinkler
21 system in new buildings and structures shall be provided in the locations described in this
22 section.

23 For the purpose of fire-sprinkler systems, buildings separated by less than ten (10) feet from
24 adjacent buildings shall be considered as one, this includes one- and two-family dwellings.

25 Barriers, partitions and walls, regardless of rating, shall not be considered as creating separate
26 buildings for purposes of determining fire sprinkler requirements.

27 All new Non-residential buildings constructed in which the aggregate floor area exceeds five-
28 thousand (5,000) square feet shall be required to be protected throughout by an approved
29 automatic fire sprinkler system at the discretion of the Fire Code Official. Mezzanines shall be
30 included in the total square footage calculation.

31 Any building or occupancy that employees a medical gas system as defined in Section 3006, in
32 addition to complying with the items described in 3006.1 through 3006.4, shall comply with the
33 latest edition of NFPA 99. These occupancies shall be required to have an automatic fire
34 sprinkler system deigned to NFPA 13 standards.

35 For Group L and H occupancies that utilize medical gas systems for research purposes, Section
36 3006 in its entirety and all applicable chapters and sections of the 2010 fire code and applicable
37 nationally recognized standards shall apply.

1 For R-3 occupancies all new one and two-family dwellings shall be provided with automatic fire
2 sprinklers.

3 **17.04.420 Section 903.2.1.1(1) Group A-1 — Amended.**

4 Section 903.2.1.1(1) of the 2010 California Fire Code is amended to read as follows:

- 5 1. The fire area exceeds 5,000 square feet (464 m²).

6 **17.04.430 Section 903.2.1.3 (1) and (4) Group A-3 — Amended.**

7 Section 903.2.1.3 (1) and (4) of the 2010 California Fire Code is amended to read as
8 follows:

- 9 1. The fire area exceeds 5,000 square feet (464 m²)
10 4. The structure exceeds 5,000 square feet (464 m²), contains more than one fire area
11 containing exhibition and display rooms, and is separated into two or more buildings by fire
12 walls of less than four-hour fire resistance rating without openings.

13 **17.04.440 Section 903.2.1.4 (1) Group A-4 — Amended.**

14 Section 903.2.1.4 (1) of the 2010 California Fire Code is amended to read as follows:

- 15 1. The fire area exceeds 5,000 square feet (464 m²).

16 **17.04.450 Section 903.2.3 (1) and (4) Group E — Amended**

17 Section 903.2.3 (1) and (4) of the 2010 California Fire Code is amended to read as
18 follows:

- 19 1. Throughout all Group E fire areas greater than 5,000 square feet (464 m²) in area.
20 4. Throughout any Group E structure greater than 5,000 square feet (464 m²) in area, which
21 contains more than one fire area, and which is separated into two or more buildings by fire
22 walls of less than four-hour fire resistance rating without openings.

23 **17.04.460 Section 903.2.7(1) and (3) Group M — Amended.**

24 Section 903.2.7 (1) and (3) of the 2010 California Fire Code is amended to read as
25 follows:

- 26 1. Throughout all Group M fire areas greater than 5,000 square feet (464 m²) in area.
27 3. The combined area of all Group M fire areas on all floors, including mezzanines, exceeds
28 5,000 square feet (464 m²) aggregate area.

17.04.470 Section 903.2.9(1) and (4) Group S-1 — Amended.

Section 903.2.9 (1) and (4) of the 2010 California Fire Code is amended to read as
follows:

- 1 1. Throughout all Group S-1 fire areas greater than 5,000 square feet (464m²) in area.
2 3. The combined area of all Group S-1 fire areas on all floors, including mezzanines, exceeds
3 5,000 square feet (464m²) aggregate area.

4 **17.04.480 Section 903.3.1.1.1 Exception 4 — Amended.**

5 Section 903.3.1.1.1, Exception 4 of the 2010 California Fire Code, is deleted in its
6 entirety.

7 **17.04.490 Section 903.3.3 Obstructed locations — Amended.**

8 Section 903.3.3 of the 2010 California Fire Code, is amended to read as follows:

9 Sprinkler discharge shall not be blocked by obstructions unless additional sprinklers are
10 installed to protect the obstructed area. Sprinkler separation from obstructions shall comply with
11 the minimum distances specified in the sprinkler manufacturer's installation instructions, and/or
12 the provisions of NFPA 13.

13 **17.04.500 Section 903.4 Sprinkler System Monitoring and Alarms – Amended**

14 Section 903.4 (1) of the 2010 California Fire Code is amended to read as follows:

15 Exception 1 – Automatic sprinkler systems with less than 100 fire sprinklers protecting one- and
16 two-family dwellings.

17 **17.04.510 Section 907.2.11.4 Power Sources (Smoke Alarms) – Amended.**

18 Chapter 9, Section 907.2.11.4 of the 2010 California Fire Code is amended to read as
19 follows:

20 907.2.11.4 Power Source: In new construction and in newly classified Group R-3.1
21 occupancies, required smoke alarms shall receive their primary power from the building wiring
22 when such wiring is served from a commercial source and shall be equipped with a battery
23 backup. Smoke alarms shall emit a signal when the batteries are low. Wiring shall be permanent
24 and without a disconnecting switch other than those required for over current protection. Smoke
25 alarms may be solely battery operated when installed in existing buildings; or in buildings
26 without commercial power; or in buildings, which undergo alterations, repairs, or additions
27 regulated by Section 907.2.11.5.

28 **17.04.520 Section 907.2.11.5 Smoke Alarms – Amended.**

Chapter 9, Section 907.2.11.5 of the 2010 California Fire Code is amended to add the
following:

Chapter 9, Section 907.2.11.5 Additions, Alterations or Repairs to Group R Occupancies is
hereby added to the Building/Fire Code portion of the California Building Standards Code to
read as follows:

(A) 907.2.11.5 Additions, Alterations or Repairs to Group R Occupancies: when the valuation of
an addition, alteration, or repair to a Group R occupancy exceeds \$1,000 and a permit is
required, or when one or more sleeping rooms are added or created in existing Group R
occupancies, smoke alarms shall be installed in accordance with Section 907.2.11.

1 **17.04.530 Section 1407 Explosive Materials — Amended.**

2 Chapter 14, Section 1407 of the 2010 California Fire Code is amended to reads as
3 follows:

4 1407.1 Storage and Handling. Explosive materials (as defined in California Code of
5 Regulations Title 19, Chapter 10, Subchapter 2, Section 1559.5) are prohibited within the City
6 limits.

7 Exception: With approval of the Fire Code Official and the City Engineer, explosives shall be
8 stored, used and handled in accordance with Chapter 33 of the Carlsbad Fire Code (as
9 amended) and applicable City ordinances.

10 1407.2 Supervision. Blasting operations conducted with approval of the Fire Code Official and
11 the City Engineer, shall be supervised by the City Engineer and all activities related to blasting
12 operations shall be in accordance with Chapter 33 of the Carlsbad Fire Code (as amended) and
13 applicable City ordinances.

14 1407.3 Demolition using explosives. With approval of the Fire Code Official and the City
15 Engineer, demolition using explosives shall be in accordance with Chapter 33 of the Carlsbad
16 Fire Code (as amended) and applicable City ordinances.

17 **17.04.540 Section 1418 Construction site fuel modification — Amended.**

18 Chapter 14, Section 1418 of the 2010 California Fire Code is amended to add the
19 following:

20 Combustible vegetation fuel modification at construction sites shall be completed to the
21 satisfaction of the Fire Code Official prior to combustible building materials arriving on site and
22 shall be maintained in accordance with Chapter 3, Section 304.

23 **17.04.550 Section 2201.1.1 Revised scope of Chapter 22, Sections 2205, 2206 and**
24 **2210 — Amended.**

25 Chapter 22, Section 2201.1.1 of the 2010 California Fire Code is amended to add the
26 following:

27 When provisions are made for Class IIIA liquids in Sections 2205, 2206 and 2210, the
28 provisions shall apply to all Class III liquids.

17.04.560 Table 2306.2 Footnote J — Amended.

Table 2306.2 of the 2010 California Fire Code is amended to delete Footnote J of the General
Fire Protection and Life Safety Requirements.

17.04.570 Section 3301.1.1 Prohibiting storage of explosives — Amended.

Section 3301.1.1 of the 2010 California Fire Code is amended to add the following:

Storage of explosives (as defined in California Code of Regulations Title 19, Chapter 10,
Subchapter 2, Section 1559.5) is prohibited within the City limits.

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1 **17.04.580 Section 3301.1.2 Prohibiting the possession, sales and use of fireworks —**
2 **Amended.**

3 Section 3301.1.2 of the 2010 California Fire Code is amended to add the following:

4 The possession, sale, use and or storage of all types of fireworks are prohibited within the City
5 limits. This includes those fireworks classified as "novelty" fireworks (e.g; Snap Caps and
6 Poppers) by the California State Fire Marshal.

7 This section does not apply to public fireworks displays permitted by the Fire Code Official
8 conducted by properly licensed persons meeting the requirements of Title 19 California Code of
9 Regulations, Chapter 6 - Fireworks.

10 **17.04.590 Section 3404.2.9.6.1 Prohibited/restricted locations for the storage of**
11 **flammable and combustible liquids in above-ground tanks —Amended.**

12 Section 3404.2.9.6.1 of the 2010 California Fire Code is amended to read as follows:

13 The storage of Class I and Class II liquids in aboveground tanks located outside of a building is
14 prohibited within the City limits.

15 *Exceptions:* Farms, rural areas and construction sites as provided in Section 3406.2 of the
16 2010 California Fire Code.

17 With written approval from the Fire Code Official, Class I and Class II liquids may be stored in
18 aboveground tanks outside of a building in specifically designed approved and listed tanks,
19 having features incorporated into its design which mitigate concerns for exposure to heat,
20 ignition sources and mechanical damage. Tanks must be installed and used in accordance with
21 its listing, and provisions must be made for leak and spill containment. Maximum storage in
22 approved and listed tanks on or at any site shall not exceed 550 gallons for Class I or 1,100
23 gallons for Class II liquids.

24 The Fire Code Official may disapprove the installation or continued use of such aboveground
25 tanks when, in the Fire Code Official's opinion, the aboveground tanks present an unacceptable
26 risk to life, the environment or property. No person or entity shall store Class I or Class II liquids
27 in aboveground storage tanks on residential property. Notwithstanding, the Fire Code Official
28 may allow an increase in the maximum storage volume when it is found that such an increase
serves public safety interests.

17 **17.04.600 Section 3405.2.4 Class I, II, and III Liquids — Amended.**

18 Section 3405.2.4 of the 2010 California Fire Code is amended to delete Exception 4 in its
19 entirety.

20 **17.04.610 Section 3804.2 Maximum capacity for storage of liquefied petroleum gas**
21 **(LPG) — Amended.**

22 Section 3804.2 of the 2010 California Fire Code is amended to read as follows:

23 Within the city limits, the combined aggregate capacity of all LPG-gas storage, on any single
24 parcel, shall not exceed 2,000 gallons (7,571 L) water capacity.

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1 **17.04.620 Section 3807.5 Securing tanks to ground (LPG) — Amended.**

2 Chapter 38, Section 3807.5 of the 2010 California Fire Code is amended to add the
3 following:

4 LPG Tanks with a water capacity of 125 gallons or larger shall be secured to the ground to
5 prevent the tank from rolling or moving. The method of securing the tank to the ground must
6 meet the requirements contained in the 2010 California Fire Code for securing aboveground
7 hazardous materials storage tanks in seismic zone 4. "Wet stamped" engineering documents
8 from a California licensed Professional Engineer are required.

9 **17.04.630 Appendix B Section B105; Subsection B105.1 Fire-Flow Requirements for
10 Buildings — Amended.**

11 Appendix B, Section B105; Subsection B105.1 *Exception*: of the 2010 California Fire Code is
12 amended to read as follows:

13 *Exception*: A reduction in required fire flow of 50 percent, as approved by the Fire Code Official,
14 is allowed when the building is provided with an approved automatic sprinkler system installed
15 in accordance with Section 903.3.1.1 or 903.3.1.2 and designed to NFPA 13 or 13-R Standards
16 only. The resulting fire-flow shall not be less than 1,500 gallons per minute (5,678 L/min) for the
17 prescribed duration as specified in Table B105.1.

18 **17.04.640 Appendix B Section B105; Subsection B105.2 Fire-Flow Requirements for
19 Buildings — Amended.**

20 Appendix B, Section B105; Subsection B105.2, *Exception 1*: of the 2010 California Fire
21 Code is amended to read as follows:

- 22 1. A reduction in required fire flow of up to 50 percent, as approved by the Fire Code Official, is
23 allowed when the building is provided with an approved automatic sprinkler system installed
24 in accordance with Section 903.3.1.1 or 903.3.1.2 and designed to NFPA 13 Standard only.
25 The resulting fire-flow shall not be less than 1,500 gallons per minute (5,678 L/min) for the
26 prescribed duration as specified in Table B105.1.

27 **17.04.650 Appendix D Section D106; Subsection D106.1 Multiple-Family Residential
28 Developments—Amended.**

Appendix D, Section D106; Subsection D106.1 of the 2010 California Fire Code is
amended to read as follows:

D 106.1 Projects having more than 24 dwelling units: Multiple-family residential projects having
more than 24 dwelling units shall be provided with two separate and approved fire apparatus
access roads.

**17.04.660 Appendix D Section D106; Subsection D106.1-Exception Multiple-Family
Residential Developments — Amended.**

Appendix D, Section D106; Subsection D106.1; *Exception* of the 2010 California Fire
Code is amended to read as follows:

Exception: Projects having more than 24 dwelling units may have a single approved fire
apparatus access road when all buildings, including non-residential occupancies, are equipped

1 throughout with approved automatic sprinkler systems installed in accordance with 903.3.1.1 or
2 903.3.1.2 and designed to NFPA 13 or 13-R Standards only.

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Chapter 18.04
BUILDING CODE

Sections:

- 18.04.010 Adoption.
- 18.04.015 Sections 105.1 and 105.2 amended—Permits required.
- 18.04.020 Section 105.3.1 amended—Building Permit issuance.
- 18.04.025 Building Official designated.
- 18.04.030 Section 105.5 amended—Expiration.
- 18.04.035 Section 105.3.2 amended—Expiration of plan review.
- 18.04.040 Section 109.2 amended—Permit fees.
- ~~18.04.150 Section 202 amended—Definitions.~~
- ~~18.04.160 Section 403.1 amended—Special provisions.~~
- ~~18.04.170 Section 403.26 added—Special provisions for buildings between thirty-five and fifty-five feet in height.~~
- ~~18.04.180 Section 403.27 added—Special provisions for buildings between thirty-five and fifty-five feet in height—Type I-F.R.~~
- ~~18.04.185 Section 603.6 added—Special provisions for buildings between thirty-five and fifty-five feet in height—Type II.~~
- ~~18.04.190 Section 604.6 added—Special provisions for buildings between thirty-five and fifty-five feet in height—Type III.~~
- ~~18.04.210 Section 605.6 added—Special provision for buildings between thirty-five and fifty-five feet in height—Type IV.~~
- 18.04.230 Section 1501 amended—Scope.
- ~~18.04.235 Section 3102.3.8 amended—Spark arrester.~~
- ~~18.04.260 Section 904.2 amended—Automatic fire extinguishing systems.~~
- ~~18.04.270 Section 904.2.9 amended—Group R Division 1 occupancies.~~
- 18.04.310 Violations.
- 18.04.315 Certificate of noncompliance.
- 18.04.320 Section 502 amended—Premises identification.
- 18.04.330 Street name signs.

18.04.010 Adoption.

The California Building Code, Volumes 1 and 2 2007 Edition The 2010 Edition of the California Building Code, Volumes 1 and 2 hereinafter referred to as "the code", copyrighted by the California Building Standards Commission, two copies of which are on file in the office of the city clerk for public record and inspection, are hereby adopted by reference as the building code of the City of Carlsbad for regulating the erection, construction, enlargement, alteration, repair, moving, removal, demolition, conversion, occupancy, equipment, use, height, area, and maintenance of all buildings or structures in the city of Carlsbad, except for changes, additions, deletions and amendments in this chapter, which shall supersede the provisions of said code.

18.04.015 Sections 105.1 and 105.2 amended—Permits required.

Sections 105.1 and 105.2 of the California Building Code are amended to read as follows:

105.1 Permits Required. Except as specified in Section 105.2 of this section, no building or structure regulated by this code shall be erected, constructed, enlarged, altered, repaired, moved, improved, removed, converted, or demolished unless a separate permit for each

1 building or structure has first been obtained from the Building Official.

2 **105.2 Work Exempt from Permit.** A building permit shall not be required for the following:

- 3 1. One story detached residential accessory buildings used as tool and storage sheds,
4 playhouses and similar uses, provided the floor area does not exceed 120 square feet (11
5 m²).
- 6 2. Playground, gymnastic and similar equipment and structures used for recreation and athletic
7 activities.
- 8 3. Fences not over six feet (1,829 mm) high.
- 9 4. Non-fixed movable fixtures, cases, racks, counters and partitions not over five feet nine
10 inches (1,853 mm) in height.
- 11 5. Retaining walls which are not over four feet (1,219 mm) in height measured from the bottom
12 of the footing to the top of the wall, unless supporting a surcharge or impounding Class I, II
13 or IDA liquids.
- 14 6. Water tanks supported directly upon grade if the capacity does not exceed 5,000 gallons
15 (18,925 L) and the ratio of height to diameter or width does not exceed two to one.
- 16 7. Platforms, walks and driveways not more than 30 inches above grade and not over any
17 basement or story below and are not part of an accessible route.
- 18 8. Painting, papering and similar finish work.
- 19 9. Temporary motion picture, television and theater stage sets and scenery.
- 20 10. Window awnings supported by an exterior wall of group R, Division 3, and Group U
21 occupancies when projecting not more than 54 inches.
- 22 11. Prefabricated swimming pools accessory to a Group R Division 3 Occupancy in which the
23 pool walls are entirely above the adjacent grade and if the capacity does not exceed 5,000
24 gallons.
- 25 12. Antennas supported on the roof.
- 26 13. Electrolier standards, flag poles and antennas not over 35 feet in height above finish grade
27 when fully extended.
- 28 14. Repairs which involve only the replacement of component parts or existing work with similar
materials only for the purpose of maintenance and which do not aggregate over \$1,000.00
in valuation and do not affect any electrical or mechanical installations. Repairs exempt from
permit requirements shall not include any addition, change or modification in construction,
exit facilities or permanent fixtures or equipment. Specifically exempt from permit
requirements regardless of value:
 - a. Painting and decorating
 - b. Installation of floor covering.
 - c. Cabinet work.
 - d. Outside paving.

1 Unless otherwise exempted, separate plumbing, electrical and mechanical permits will
2 be required for the above exempted items. Exemption from the permit requirements of this
3 code shall not be deemed to grant authorization for any work to be done in any manner in
4 violation of the provisions of this code or any other laws or ordinances of this jurisdiction.

5 **18.04.020 Section 105.3.1 amended—Building Permit issuance.**

6 Section 105.3.1 of the California Building Code is amended to read as follows:

7 The application, plans and specifications filed by an applicant for a permit shall be reviewed by
8 the Building Official. Such plans may be reviewed by other divisions of the City to check
9 compliance with the laws and ordinances under their jurisdiction. If the Building Official is
10 satisfied that the work described in an application for permit and the plans filed therewith
11 conform to the requirements of this code and other pertinent laws and ordinances and that all
12 applicable fees have been paid, the Building Official shall issue a permit therefore to the
13 applicant. In the case of a new building, all fees required for connection to public water systems
14 and to sewer systems provided by entities other than the City must be paid or a bond posted
15 before a permit is issued.

16 When the Building Official issues a permit, the Building Official shall endorse in writing or stamp
17 on both sets of plan and specifications, "Approved". Such approval plans and specifications
18 shall not be changed, modified, or altered without authorization from the Building Official, and all
19 work shall be done in accordance with the approved plans.

20 The Building Official may issue a permit for the construction of part of a building or structure
21 before the entire plans and specifications for the whole building or structure have been
22 submitted or approved, provided adequate information and detailed statements have been filed
23 complying with all pertinent requirements of this code. The holder of such permit shall proceed
24 at their own risk without assurance that the permit for the entire building or structure will be
25 granted.

26 **18.04.025 Building Official designated.**

27 The Building Official or authorized representative of the city is designated as the person who
28 shall enforce all of the provisions of the California Building Code as amended.

18.04.030 Section 105.5 amended—Expiration.

Section 105.5 of the California Building Code is amended to read as follows:

Every permit issued by the Building Official under the provisions of this code shall expire by
limitation and become null and void if the building or work authorized by such permit is not
commenced within 180 calendar days from the date of such permit, or if the building or work
authorized by such permit is stopped at any time after the work is commenced for a period of
one hundred eighty calendar days, or if the building or work authorized by such permit exceeds
three calendar years from the issuance date of the permit. Work shall be presumed to have
commenced if the permittee has obtained a required inspection approval of work authorized by
the permit by the Building Official within one hundred eighty calendar days of the date of permit
issuance. Work shall be presumed to be stopped if the permittee has not obtained a required
inspection approval of work by the Building Official within each one hundred eighty day period
upon the initial commencement of work authorized by such permit.

The Building Official is authorized to grant, in writing, one or more extensions of time, for

1 periods not to exceed 180 days each. The extensions shall be granted in writing and justifiable
2 cause demonstrated.

3 Before such work can be recommenced, a new permit shall be obtained to do so, and the fee
4 therefore shall be one half the amount required for a new permit for such work, and provided
5 that no changes have been made or will be made in the original plans and specifications for
6 such work, and provided further that such suspension or abandonment has not exceeded one
7 year. In order to renew action on a permit after expiration, the permittee shall pay a new permit
8 fee.

9 Any permittee holding an unexpired permit may apply for an extension of time within which work
10 may commence under that permit when the permittee is unable to commence work within the
11 time period required by this section for good and satisfactory reasons.

12 The provisions of any sewer allocation system adopted pursuant to Chapter 18.05 of the
13 Municipal Code shall supersede Section 106.4.4 of the California Building Code if the permit is
14 issued pursuant to such system.

15 **18.04.035 Section 105.3.2 amended—Expiration of plan review.**

16 Section 105.3.2 of the California Building Code is amended to read as follows:

17 Applications for which no permit is issued within one year following the date of application shall
18 expire by limitation, and plans and other data submitted for review may thereafter be returned to
19 the applicant or destroyed by the Building Official. In order to renew action on an application
20 after expiration, the applicant shall resubmit plans and pay a new plan review fee.

21 **18.04.040 Section 109.2 amended—Permit fees.**

22 Section 109.2 of the California Building Code is amended to read as follows:

23 **PERMIT FEES.** The fees for each permit shall be as set forth in the City's master fee schedule
24 or by a resolution of the City Council.

25 Notwithstanding other provisions of this section, the building permit fee for factory built housing
26 shall be twenty-five percent of the fee for Type V dwelling units, and the plan check fee shall be
27 sixty-five percent of the building permit fee.

28 ~~**18.04.150 Section 202 amended—Definitions.**~~

~~Section 202 of the California Building Code is amended to read as follows:-~~

~~**High-rise structure.** As used in this code:~~

- ~~1. "Existing high-rise structure" means a high-rise structure, the construction of which is
commenced or completed prior to July 1, 1974.~~
- ~~2. "High-rise structure" means every building of any type of construction or occupancy having
floors used for human occupancy located more than 55 feet above the lowest floor level
having building access (see California Building Code Section 403.1.2), except buildings
used as hospitals as defined in Health and Safety Code Section 1250~~
- ~~3. "New high-rise structure" means a high-rise structure, the construction of which is
commenced on or after July 1, 1974.~~

1 **~~18.04.160~~ — Section 403.1 amended — Special provisions.**

2 ~~Section 403.1 of the California Building Code is amended to read as follows:~~

3 ~~Scope. This section applies to all Group B office buildings, Group H, Division 8, and Group R,~~
4 ~~Division 1, Occupancies, each having floors used for human occupancy located more than 55~~
5 ~~feet above the lowest level of fire department vehicle access. Such buildings shall be of Type I~~
6 ~~or II F.R. construction and shall be provided with an approved automatic sprinkler system in~~
7 ~~accordance with Section 403.2.~~

6 **~~18.04.170~~ — Section 403.26 added — Special provisions for buildings between thirty-five**
7 **~~and fifty-five feet in height.~~**

8 ~~Section 403.26 is added to the California Building Code to read as follows:~~

9 ~~Section 403.26 Special Provisions for Buildings between 35 and 55 feet in height.~~

10 ~~Scope. This section shall apply to all buildings having floors used for human occupancy located~~
11 ~~more than 35 feet, but less than 55 feet above the lowest level of fire department access. Such~~
12 ~~buildings shall comply with Section 403 of the Code.~~

11 **~~EXCEPTIONS:~~** The following subsections of 403 of the Code are not requirements for buildings
12 included within the scope of this section:

- 13 1. ~~403.2.2~~
- 14 2. ~~403.5.2~~
- 15 3. ~~403.6.1 Item 4~~
- 16 4. ~~403.6.1 Item 8~~
- 17 5. ~~403.7~~
- 18 6. ~~403.8~~
- 19 7. ~~403.9 Item 2~~
- 20 8. ~~403.10~~
- 21 7. ~~403.9 Item 2~~
- 22 8. ~~403.10~~

19 **~~18.04.180~~ — Section 403.27 added — Special provisions for buildings between thirty-five**
20 **~~and fifty-five feet in height — Type I-F.R.~~**

21 ~~Section 403.27 is added to the California Building Code to read as follows:~~

22 ~~Type I-F.R. buildings shall comply with the special provisions of Section 403.26 of the Code.~~

23 **~~18.04.185~~ — Section 603.6 added — Special provisions for buildings between thirty-five**
24 **~~and fifty-five feet in height — Type II.~~**

25 ~~Section 603.6 is added to the California Building Code to read as follows:~~

26 ~~Type II buildings shall comply with the special provisions of Section 403.26 of the Code.~~

27 ~~///~~

28 ~~///~~

1 **~~18.04.190~~ Section ~~604.6~~ added—Special provisions for buildings between thirty-five**
2 **~~and fifty-five feet in height—Type III.~~**

3 ~~Section 604.6 is added to the California Building Code to read as follows:~~

4 ~~Type III buildings shall comply with the special provisions of Section 403.26 of the Code.~~

5 **~~18.04.210~~ Section ~~605.6~~ added—Special provision for buildings between thirty-five and**
6 **~~fifty-five feet in height—Type IV.~~**

7 ~~Section 605.6 is added to the California Building Code to read as follows:~~

8 ~~Type IV buildings shall comply with the special provisions of Section 403.26 of the Code.~~

9 **18.04.230 Section 1501 amended—Scope.**

10 Section 1501 of the California Building Code is amended to read as follows:

11 Roofing assemblies, roof coverings, and roof structures shall be as specified in this Code and
12 as otherwise required by this Chapter.

13 Roofing assemblies and roof coverings other than wood shakes and shingles shall be Class A.

14 Wood Shakes and Shingles of any classification are prohibited as a roof covering on all
15 structures and on all replacement roofs.

16 Roof coverings shall be secured or fastened to the supporting roof construction and shall
17 provide weather protection for the building at the roof.

18 Skylights shall be constructed as required in Chapter 24. For use of plastics in roofs, see
19 Chapter 26. For solar energy collectors located above or upon a roof, see Chapter 13.

20 **~~18.04.235~~ Section ~~3102.3.8~~ amended—Spark arrester.**

21 ~~Section 3102.3.8 of the California Building Code is amended to read as follows:~~

22 ~~All chimneys attached to any appliance or fireplace that burns solid fuel shall be equipped with~~
23 ~~an approved spark arrester. The net free area of the spark arrester shall be not less than four~~
24 ~~times the net free area of the outlet of the chimney. The spark arrester screen shall have heat~~
25 ~~and corrosion resistance equivalent to 12-gauge wire, nineteen-gauge galvanized wire or 24~~
26 ~~gauge stainless steel. Openings shall not permit the passage of spheres having a diameter~~
27 ~~larger than one-half inch and shall not block the passage of spheres having a diameter of less~~
28 ~~than three-eighths inch.~~

29 **~~18.04.260~~ Section ~~904.2~~ amended—Automatic fire extinguishing systems.**

30 Section 904.2 of the California Building Code is amended to add:

31 ~~904.2.1.1 Excluding detached R-3 occupancies, in buildings two or more stories in height, an~~
32 ~~automatic fire extinguishing system shall be installed in those areas which lie below the lowest~~
33 ~~elevation of Fire Department vehicular access. The access elevation shall be determined by the~~
34 ~~Fire Chief.~~

1 ~~904.2.1.2 Other provisions of this section notwithstanding, all buildings hereafter constructed in~~
2 ~~which the aggregate floor area exceeds ten thousand (10,000) square feet shall be protected by~~
3 ~~an approved automatic fire extinguishing system.~~

3 ~~904.2.1.3 Other provisions of this section notwithstanding, all existing buildings in which the~~
4 ~~aggregate floor area is expanded to exceed ten thousand (10,000) square feet shall be~~
5 ~~protected throughout by an approved automatic fire extinguishing system.~~

5 ~~Subsections 904.2.1.2 and 904.2.1.3 shall not apply to an "Open Parking Garage" as that term~~
6 ~~is defined in the 2001 edition of the California Building Code.~~

7 ~~18.04.270~~ **Section 904.2.9 amended Group R Division 1 occupancies.**

8 ~~Section 904.2.9 is amended to read:~~

9 ~~An automatic sprinkler system shall be installed throughout every apartment house three or~~
10 ~~more stories in height or containing 5 or more dwelling units, every congregate residence three~~
11 ~~or more stories in height or having an occupant load of 11 or more, and every hotel three or~~
12 ~~more stories in height or containing 6 or more guest rooms. Residential or quick-response~~
13 ~~standard sprinklers shall be used in the dwelling units and guest room portions of the building.~~

12 ~~Apartment houses and other residential buildings, having an aggregate floor area exceeding~~
13 ~~10,000 square feet, may be protected by an approved automatic fire sprinkler system~~
14 ~~conforming to UBC Standard 9-3 when they are one or two stories in height and contain fewer~~
15 ~~than 16 dwelling units. Such automatic sprinkler systems shall not be considered as the basis~~
16 ~~for increasing the allowable area of a building or for exemption from any other Uniform Building~~
17 ~~Code requirement.~~

16 **18.04.310 Violations.**

17 Any person or corporation who violates any of the provisions of this code or this chapter is guilty
18 of an infraction, except for the fourth and each additional violation of a provision within one year,
19 which shall be a misdemeanor. Penalties for a violation of this chapter shall be as designated in
20 section 1.08.010 of this code.

19 **18.04.315 Certificate of noncompliance.**

20 a. If the building official determines there is a violation of this chapter, it may result
21 in the building official filing, in the office of the county recorder, a certificate of noncompliance.
22 Such certificate shall describe the property, certify noncompliance, and state that the owner or
23 person in control of the property has been notified. If a certificate of noncompliance is filed, and
24 where the permit, inspection, and/or approval required is obtained, the building official shall
25 provide to the property owner a certificate of compliance to file with the county recorder
26 certifying compliance. Until a certificate of compliance has been filed, all applications for grading
27 permits, use permits, major and minor subdivisions, rezones, specific plans, specific plan
28 amendments, general plan amendments, discretionary approvals and building permits may be
denied.

26 b. When the building official or the authorized representative thereof determines
27 that compliance to this chapter is not had, they shall provide written notice, by certified mail
28 return receipt requested, to the owner or person in control of the property. Such notice shall

1 contain: (1) a description of the property; (2) the condition or condition that has caused the
2 noncompliance; (3) a reasonable time limit to bring the property into compliance; (4) the
potential to record a certificate of noncompliance; and (5) the right to appeal.

3 c. Within ten days from the date of giving of notice, the owner or person in control of
4 the property may file an appeal of the finding of noncompliance to the city council. Such appeal
5 shall be in writing and shall identify the property subject to the certificate of noncompliance. The
6 city council must hear the appeal within 60 days from the filing of the appeal or at such later
date as may be agreed to by the appellant. Notice of the hearing date shall be given in writing.
The hearing date shall be no sooner than five days from the date when notice of the hearing is
given to the appellant and to the building official. The decision of the city council is final.

7 **18.04.320 Section 502 amended—Premises identification.**

8 Section 502 of the California Building Code is amended to read as follows:

9 Each occupancy, principal building, structure, dwelling unit, and mobile home space within the
10 City shall be identified by a number or combination of number and letter. Such numbers shall be
11 in harmony with other established postal addresses in the area. The numbers for commercial
12 and industrial buildings shall be a minimum of 12 inches high and for residential buildings, four
inches high, and shall be of contrasting colors so as to be readable from the adjoining streets.
Numbers shall be designated and assigned by the Building Department.

13 **18.04.330 Street name signs.**

14 All private and public streets within the city shall have designated street names which shall be
15 identified by signs. The size and type of street signs and the names of streets shall be subject to
the approval of the city planning department, and the police and fire departments. Location and
number of signs shall be as required by the city.

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Chapter 18.08
MECHANICAL CODE

Sections:

| | |
|-----------|--------------------------------------|
| 18.08.010 | Adoption. |
| 18.08.020 | <u>Building Official designated.</u> |
| 18.08.030 | Violations. |
| 18.08.040 | Certificate of noncompliance. |
| 18.08.050 | <u>Permit Fees.</u> |

18.08.010 Adoption.

~~The California Mechanical Code 2007 Edition, copyrighted by the International Conference of Building Officials, is adopted by reference as the mechanical code of the city of Carlsbad. The California Mechanical Code 2010 Edition, copyrighted by the International Association of Plumbing and Mechanical Officials, is adopted by reference as the mechanical code of the City of Carlsbad.~~

18.08.020 Building Official designated.

~~The building and code enforcement manager or authorized representative of the city is designated as the building official as mentioned in the Uniform Mechanical Code and is designated as the person who shall enforce all of the provisions of that code. The building official or authorized representative of the city is designated as the person who shall enforce all of the provisions of the California Mechanical Codes as amended.~~

18.08.030 Violations.

Any person or corporation who violates any of the provisions of this chapter is guilty of an infraction, except for the fourth and each additional violation of a provision within one year, which shall be a misdemeanor. Penalties for a violation of this chapter shall be as designated in Section 1.08.010 of this code.

18.08.040 Certificate of noncompliance.

1. If the Building Official determines there is a violation of this chapter, it may result in the building official filing, in the office of the county recorder, a certificate of noncompliance. Such certificate shall describe the property, certify noncompliance, and state that the owner or person in control of the property has been so notified. If a certificate of noncompliance is filed, and where the permit, inspection, and/or approval required is obtained, the building official shall file a certificate of compliance with the county recorder certifying compliance. Until a certificate of compliance has been filed, all applications for grading permits, use permits, major and minor subdivisions, rezones, specific plans, specific plan amendments, general plan amendments, discretionary approvals and building permits may be denied.
2. When the building official or the authorized representative thereof determines that compliance to this chapter is not had, they shall provide written notice, by certified mail return receipt requested, to the owner or person in control of the property. Such notice shall contain: (1) a description of the property; (2) the condition or condition that has caused the noncompliance; (3) a reasonable time limit to bring the property into compliance; (4) the potential to record a certificate of noncompliance; and (5) the right to appeal.

Chapter 18.12
ELECTRICAL CODE

Sections:

I. General Regulations

- 18.12.010 Adoption.
- 18.12.020 Application—Scope.
- 18.12.030 Building official designated.
- ~~18.12.080 Permits—Required.~~
- ~~18.12.090 Permits—Exceptions.~~
- ~~18.12.100 Permits—Expiration.~~
- ~~18.12.110 Installations—Incomplete.~~
- ~~18.12.120 Permit—Scope.~~
- ~~18.12.130 Permit—Application.~~
- ~~18.12.140 Installations—Inspection.~~
- ~~18.12.150 Installations—Disapproved.~~
- ~~18.12.160 Concealed wiring—Inspection.~~
- ~~18.12.170 Alterations—Additions.~~
- ~~18.12.180 Service connections.~~
- ~~18.12.190 Approval of materials.~~
- ~~18.12.195 Materials.~~
- ~~18.12.200 Previously used materials.~~
- ~~18.12.205 Wiring in existing or relocated building or structures.~~
- ~~18.12.210 Special test for fiber or asbestos cement conduit.~~
- ~~18.12.215 Temporary meter sets.~~
- ~~18.12.220 Cost of permit.~~
- ~~18.12.225 Violations and penalties.~~
- ~~18.12.227 Certificate of noncompliance.~~
- ~~18.12.230 Article 215.5 amended—Diagrams of feeders.~~

II. Modifications

- ~~18.12.240 Article 225.10 amended—Wiring on buildings.~~
- ~~18.12.247 Article 250.118 amended—Types of equipment grounding conductors.~~
- ~~18.12.250 Article 362.10(2) amended—Electrical nonmetallic tubing.~~
- ~~18.12.251 Article 320.12 amended—Uses not permitted.~~
- ~~18.12.252 Article 330.108 amended—Grounding.~~

I. General Regulations

- 18.12.010 Adoption.

~~The California Electrical Code 2007 Edition~~ The California Electrical Code 2010 Edition, copyrighted by the National Fire Protection Association, is adopted by reference as the electrical code for the city of Carlsbad.

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Deletion by Strikethrough, additions and changes by underline

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1 **18.12.020 Application—Scope.**

2 The provisions of this code shall apply to the installation, repair, operation and maintenance of
3 all electric wiring and electrical apparatus of any nature whatsoever whether inside or outside of
any building within the city except as provided otherwise in this code.

4 **18.12.030 Building official designated.**

5 The building official or authorized representative of the city is designated as the person who
6 shall enforce all of the provisions of the California Electrical Code.

7 **18.12.080 Permits - Required.**

- 8 1. No electric wiring, devices, appliances or equipment shall be installed within or on any
9 building, structure or premises nor shall any alteration without first securing a permit therefor
10 from the building official except as stated in Section 18.12.090.
- 11 2. Permits shall be obtained before or at the time work is started, except in cases where
12 emergency or urgent necessity can be shown to exist provided a permit is obtained within
13 24 hours, exclusive of Saturdays, Sundays, and holidays.
- 14 3. A separate permit shall be required for each building or structure which stands alone.
- 15 4. Permits for privately-owned conduits or other materials in public places and in and across
16 streets and alleys may be issued only after approval has been granted for the installation by
17 the city engineer. All work shall be done in accordance with law and special regulations
applicable thereto.
- 18 5. Permits shall only be issued to contractors licensed by the state of California to engage in
19 the business or act in the capacity of a contractor, relating to electrical inspection
20 installation, and to persons holding a valid master electrician certificate of competency for
21 work performed only on the property of his employer, or the owner

22 **18.12.090 Permits – Exceptions.**

- 23 1. No permit shall be required for minor repair work such as repairing flush or snap switches,
24 replacing fuses, repairing lamp sockets and receptacles when such work is done in
25 accordance with the provisions of this code.
- 26 2. No permit shall be required for the replacement of lamps or the connection of portable
27 appliances to suitable receptacles which have been permanently installed.
- 28 3. No permit shall be required for the installation, alteration or repair of wiring, devices,
appliances or equipment for the operation of signals or the transmission of intelligence (not
including the control of lighting or appliance circuits) where such wiring, devices, appliances
or equipment operate a voltage not exceeding twenty-five volts between conductors and do
not include generating or transforming equipment capable of supplying more than one
hundred watts of energy.
4. No permit shall be required for the installation, alteration or repair of electric wiring, devices,
appliances and equipment installed by or for a public service corporation in the operation of
signals or the transmission of intelligence.

1 5. No permit shall be required for the installation of temporary wiring for testing electrical
2 apparatus or equipment.

3 **18.12.100 Permits – Expiration.**

4 1. If the work authorized by a permit is not commenced within 180 days after issuance or if the
5 work authorized by a permit is suspended or abandoned at any time after the work is
6 commenced for a period of 180 days, the permit shall become void.

7 2. Permits shall expire one year after the date of issuance unless the permit is issued for a
8 longer period of time.

9 3. Permits for a period longer than one year must be requested at the time of application for
10 the original permit. Said permits will be issued for a period of time determined by the
11 building official to be reasonably necessary to complete the work for which a permit is
12 requested.

13 4. An expired permit may be renewed upon payment of a fee to cover the unfinished work
14 according to the fee schedule.

15 ~~**18.12.110 Installations – Incomplete.**~~

16 ~~Should any person to whom a permit has been issued quit an installation, for any reason, he
17 shall notify the building official within 48 hours and request an inspection of work installed. No
18 person shall resume work on an uncompleted installation until such installation shall have been
19 approved by the building official and necessary permit obtained.~~

20 **18.12.120 Permit – Scope.**

21 The permit when issued shall be for such installation as is described in the application and no
22 deviation shall be made from the installation so described without the written approval of the
23 building official.

24 **18.12.130 Permit- Application.**

25 Application for permit, describing the work to be done, shall be made in writing to the building
26 official. The application shall be accompanied by such plans, specifications and schedules as
27 may be necessary to determine whether the installation as described will be in conformity with
28 the requirements of this code. If it shall be found that the installation as described will in general
conform with the requirements of this code, and if the applicant has complied with all of the
provisions of this code, a permit for such installation shall be issued; provided however that the
issuance of the permit shall not be taken as permission to violate any of the requirements of this
code. Application for permits for electrical installations where the service capacity exceeds 200
amperes shall be accompanied by two sets of electrical line drawings and load distribution
calculations showing service panel and branch panel capacities and locations service switch
and branch switch capacities, conduit and feeder sizes.

~~**18.12.140 Installations – Inspection.**~~

~~Upon completion of the work which has been authorized by issuance of any permit, it shall be
the duty of the person installing the same to notify the building official who shall inspect the
installation within 48 hours, exclusive of Saturdays, Sundays and holidays, of the time such
notice is given or as soon thereafter as practicable.~~

1 **~~18.12.150~~ — ~~Installations~~ — ~~Disapproved.~~**

2 If upon inspection the installation is not found to be fully in conformity with the provisions of this
3 code, the building official shall at once notify the person making the installation, stating the
4 defects which have been found to exist. All defects shall be corrected within ten days after
5 inspection and notification, or within other reasonable time as permitted by the building official.

6 **~~18.12.160~~ — ~~Concealed wiring~~ — ~~Inspection.~~**

7 When any part of a wiring installation is to be hidden from view by the permanent placement of
8 parts of the building, the person installing the wiring shall notify the building official and such
9 parts of the wiring installation shall not be concealed until they have been inspected and
10 approved by the building official; provided, that on large installations, where the concealment of
11 parts of the wiring proceeds and continuously the person installing the wiring shall give the
12 building official due notice and inspections shall be made periodically during the progress of the
13 work. The building official shall have the power to remove, or require the removal of any
14 obstruction that prevents proper inspection of any electrical equipment.

15 **~~18.12.170~~ — ~~Alterations~~ — ~~Additions.~~**

16 Additions or extensions to, and alterations and renewals of existing installations shall be made
17 in compliance with the provisions of this chapter.

18 **~~18.12.180~~ — ~~Service connections.~~**

19 1. ~~It is unlawful for any person to make connections to the source of electrical energy or to~~
20 ~~supply electrical service to any electrical wiring, devices, appliances or equipment for which~~
21 ~~a permit is required unless such person shall have obtained satisfactory evidence that such~~
22 ~~wiring, devices, appliances or equipment are in all respects in conformity with all provisions~~
23 ~~of this chapter.~~

24 2. ~~It is unlawful for any person to make connections from the source of electrical energy or to~~
25 ~~supply electric service to any electrical wiring, devices, appliances, or equipment which has~~
26 ~~been disconnected by the building official or the use of which has been ordered by the~~
27 ~~building official to be discontinued until approval has been granted by him authorizing the~~
28 ~~reconnection and use of such wiring, devices, appliances, or equipment.~~

~~18.12.190~~ — ~~Approval of materials.~~

Listing or labeling, as conforming to the Standards of the Underwriter's Laboratories, Inc., or the
United States Bureau of Mines, shall be prima facie evidence of conformity with the approved
standards for safety to life and property. A lighting fixture of the electric discharge type shall
have a power factor of nine-tenths or better and shall be so marked, when its rating exceeds 20
watts.

~~18.12.195~~ — ~~Materials.~~

1. ~~All electrical materials, devices, appliances and equipment installed or used, shall be in~~
conformity with the provisions of this chapter and with approved standards for safety to life
and property.

2. ~~The manufacturer's name, trademark, or other identification symbol shall be placed on all~~
electrical materials, devices, appliances and equipment used or installed under this article.

1 **~~18.12.200~~ — ~~Previously used materials.~~**

2 ~~Previously used materials shall not be reused in any work without the written approval obtained~~
3 ~~in advance from the building official.~~

4 **~~18.12.205~~ — ~~Wiring in existing or relocated building or structures.~~**

5 ~~1. The provisions contained in this section shall apply to all existing or relocated buildings~~
6 ~~when deemed inadequate or unsafe by the building official.~~

7 ~~2. Relocated Buildings. All electric wiring, electrical devices and equipment in relocated~~
8 ~~buildings shall comply with all the provisions of this code for new installations.~~

9 ~~3. Additions to or alterations in old wiring shall be made in compliance with the provisions of~~
10 ~~this section.~~

11 ~~4. Outlets added to existing branch circuits, including existing outlets, shall be rated at not less~~
12 ~~than one and one-half amperes each. Circuits to which outlets have been added shall not~~
13 ~~contain outlets whose number will exceed eighty percent of the branch circuit rating.~~

14 ~~5. Each room in a relocated dwelling shall be provided with not less than two convenience~~
15 ~~outlets, equally spaced. Receptacles which are a part of a fixture or switch outlet shall not~~
16 ~~count.~~

17 **~~18.12.210~~ — ~~Special test for fiber or asbestos cement conduit.~~**

18 ~~When deemed necessary by the administrative authority, a test plug may be required to be~~
19 ~~drawn through each run of conduit in the presence of a city inspector.~~

20 **18.12.215 Temporary meter sets.**

21 A temporary meter may be set on the permanent electrical service base for testing equipment,
22 for lighting of interiors where outside sources do not light, or for health and safety and protection
23 of persons. Failure to provide and comply with all provisions of this chapter shall constitute
24 grounds for the removal of any or all meters on the project.

25 **18.12.220 Cost of permit.**

26 Every applicant for a permit shall pay for each permit issued at the time of issuance a fee in
27 accordance with the following schedule, and at the rate provided for each classification shown in
28 this schedule.

Any person who commences any work for which a permit is required by this code without first
having obtained a permit therefor shall, if subsequently permitted to obtain a permit, pay double
the permit fee fixed by this section for such work; provided, however, that this provision shall not
apply to emergency work when it has been proven to the satisfaction of the administrative
authority that such work was urgently necessary and that it was not practical to obtain a permit
therefor before the commencement of the work. In all such cases, a permit must be obtained as
soon as it is practical to do so, and if there is an unreasonable delay in obtaining such permit, a
double fee as provided in this section shall be charged.

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Schedule of Fees

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| Issuance fee | \$ 10.00 |
| New construction for each ampere of main service, switch, fuse or breaker | |
| -per ampere, single-phase | \$ 0.25 |
| -per ampere, three-phase | 0.50 |
| -per ampere 480 three-phase | 1.00 |
| Service upgrade on existing building. | |
| For each ampere of increase in main service, switch, fuse or breaker | |
| -per ampere, single-phase | \$ 0.25 |
| -per ampere, three-phase | 0.50 |
| -per ampere 480 three-phase | 1.00 |
| Remodel, alteration, no change in service | |
| -per ampere | \$ 0.25 |
| -or minimum | 5.00 |
| Temporary service up to and including 200 amperes | \$ 10.00 |
| Temporary service over 200 amperes \$10.00 plus \$10.00 per each 100- | \$ 10.00- |
| amperes over 200 | plus |
| Test meter | \$ 25.00 |
| Minimum permit fee | \$ 10.00 |

Note: Amperes rate shall apply to the secondary side of the transformer or transformers.

The fees for each electrical permit shall be as set forth in the City's master fee schedule or by a resolution of the City Council.

Any person who commences any work for which a permit is required by this code without first having obtained a permit therefore shall, if subsequently permitted to obtain a permit, pay double the permit fee fixed by this section for such work; provided, however, that this provision shall not apply to emergency work when it has been proven to the satisfaction of the

1 administrative authority that such work was urgently necessary and that it was not practical to
2 obtain a permit therefore before the commencement of the work. In all such cases, a permit
3 must be obtained as soon as it is practical to do so, and if there is an unreasonable delay in
4 obtaining such permit, a double fee as provided in this section shall be charged.

5 **18.12.225 Violations and penalties.**

- 6
- 7 1. Any person or corporation who violates any of the provisions of this chapter is guilty of an
8 infraction except for the fourth or each additional violation of a provision within one year
9 which shall be a misdemeanor. Penalties of a violation of this chapter shall be designated in
10 Section 1.08.010 of this code.
 - 11 2. The issuance or granting of a permit or approval of plans shall not prevent the building
12 official from thereafter requiring the correction of errors in these plans and specifications, or
13 from preventing construction operations from being carried on there under when in violation
14 of this code or of any other ordinance, or from revoking any certificate of approval when
15 issued in error.

16 **18.12.227 Certificate of noncompliance.**

- 17 1. If the building official determines there is a violation of this chapter, it may result in the
18 building official filing, in the office of the county recorder, a certificate of noncompliance.
19 Such certificate shall describe the property, certify noncompliance, and state that the owner
20 or person in control of the property has been so notified. If a certificate of noncompliance is
21 filed, and where the permit, inspection, and/or approval required is obtained, the building
22 official shall file a certificate of compliance with the county recorder certifying compliance.
23 Until a certificate of compliance has been filed, all applications for grading permits, use
24 permits, major and minor subdivisions, rezones, specific plans, specific plan amendments,
25 general plan amendments, discretionary approvals and building permits may be denied.
- 26 2. When the building official or the authorized representative thereof determines that
27 compliance to this chapter is not had, they shall provide written notice, by certified mail
28 return receipt requested, to the owner or person in control of the property. Such notice shall
contain: (1) a description of the property; (2) the condition or condition that has caused the
noncompliance; (3) a reasonable time limit to bring the property into compliance; (4) the
potential to record a certificate of noncompliance; and (5) the right to appeal.
3. Within ten days from the date of giving of notice, the owner or person in control of the
property may file an appeal of the finding of noncompliance to the city council. Such appeal
shall be in writing and shall identify the property subject to the certificate of noncompliance.
The city council must hear the appeal within 60 days from the filing of the appeal or at such
later date as may be agreed to by the appellant. Notice of the hearing date shall be given in
writing. The hearing date shall be no sooner than five days from the date when notice of the
hearing is given to the appellant and to the building official. The decision of the city council is
final.

~~18.12.230 Article 215.5 amended Diagrams of feeders.~~

~~Article 215.5 of the California Electrical Code is amended to add the following:~~

~~All horizontal feeders in multiple occupancy, combustible frame dwellings shall be installed
underground or outside the building unless otherwise approved by the administrative authority.
A duplex is not considered a multiple occupancy in this instance.~~

1 **II. — Modifications**

2 **~~18.12.240 — Article 225.10 amended — Wiring on buildings.~~**

3 ~~Article 225.10 of the California Electrical Code is amended to add the following:~~

4 ~~The installation of outside wiring on roof surfaces shall not be allowed. The installation of~~
5 ~~outside wiring on surface of building shall have approval of the administrative authority.~~

6 **~~18.12.247 — Article 250.118 amended — Types of equipment grounding conductors.~~**

7 ~~Article 250.118 of the California Electrical Code is amended to read as follows:~~

8 ~~The equipment grounding conductor run with, or enclosing the circuit conductors shall be one or~~
9 ~~more, or a combination of the following:~~

10 1. ~~A copper or other corrosion resistant conductor. This conductor shall be solid or stranded,~~
11 ~~insulated, covered or bare, and in the form of a wire or a bus bar of any shape.~~

12 2. ~~Rigid metal conduit.~~

13 3. ~~Intermediate metal conduit.~~

14 4. ~~Electrical metallic conduit.~~

15 5. ~~Cable trays as permitted in Section 392.3(c) and 392.7.~~

16 6. ~~Cable bus framework as permitted in Section 370.3.~~

17 ~~All flexible metal conduits, Type AC cables, Type MC cables, mineral insulated metal sheathed~~
18 ~~cables, and non-metallic conduit systems shall have equipment ground conductors run with the~~
19 ~~circuit conductors.~~

20 ~~Exception No. 1: Flexible metal conduit and flexible metallic tubing shall be permitted for~~
21 ~~grounding if all the following conditions are met:~~

22 a. ~~The length in any ground return path does not exceed six feet (1.83 m).~~

23 b. ~~The circuit conductors contained therein are protected by overcurrent devices rated at~~
24 ~~20 amperes or less.~~

25 c. ~~The conduit or tubing is terminated in fittings listed for grounding.~~

26 ~~Exception No. 2: Liquidtight flexible metal conduit shall be permitted as a grounding means in~~
27 ~~the 1 ¼ inch and smaller trade sizes if the total length of any ground return path is six feet (1.82~~
28 ~~m) or less, the conduit is terminated in fittings listed for grounding, and the circuit conductors~~
29 ~~contained therein are protected by overcurrent devices rated at 20 amperes or less for ¾ inch~~
30 ~~and ½ inch trade sizes and 60 amperes or less for ¾ inch through 1 ¼ inch trade sizes.~~

31 ~~Exception No. 3: For direct current circuits only, the equipment grounding conductor shall be~~
32 ~~permitted to be run separately from the circuit conductors.~~

33 ~~///~~

1 ~~18.12.250~~ — ~~Article 362.10(2)~~ amended — ~~Electrical nonmetallic tubing.~~

2 Article 362.10(2) of the California Electrical Code is amended to read as follows:

3 ~~The use of electrical nonmetallic tubing and fittings shall be permitted concealed within walls~~
4 ~~and floors, where the walls and floors provide a thermal barrier of material which has at least a~~
5 ~~15-minute finish rating as identified in listings of fire-rated assemblies and there is a continuous~~
6 ~~ground cable from the main panel throughout the system.~~

7 ~~18.12.251~~ — ~~Article 320.12~~ amended — ~~Uses not permitted.~~

8 Article 320.12 of the California Electrical Code is amended to read as follows:

9 ~~Type A.C. cable shall not be used in Group A, B, E, H, I, M and S occupancies as defined in the~~
10 ~~Uniform Building Code; (Non-residential buildings).~~

11 ~~Exception to Non-Residential Buildings Only: A complete factory designed and assembled A.C.~~
12 ~~Cable Electrical System for lighting or movable walls and U.L. approved may be used with~~
13 ~~approval of the Building official.~~

14 ~~18.12.252~~ — ~~Article 330.108~~ amended — ~~Grounding.~~

15 Article 330.108 of the California Electrical Code is amended to read as follows:

16 ~~Type MC cable shall provide an equipment grounding conductor run with the circuit conductors.~~

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Chapter 18.16
PLUMBING CODE

Sections:

I. General Regulations

- 18.16.010 Adoption.
~~18.16.030 Building Official designated.~~
18.16.040 Expiration of permit.
18.16.060 Standards for installation and materials.
~~18.16.070 Section 402.3 added—Ultra low flush toilets.~~
18.16.080 Section 609.12 added—Bypass tees.

II. Modifications

- 18.16.120 Section 102.3.1 amended—Violations.
18.16.125 Certificate of noncompliance.
18.16.130 Section 103.4.1 amended—Permit fees.
~~18.16.160 Section 610.2 amended—Discharge of saline water by water softener.~~

I. General Regulations

18.16.010 Adoption.

~~The California Plumbing Code, 2007 Edition~~ The California Plumbing Code, 2010 Edition, copyrighted by the International Association of Plumbing and Mechanical Officials, is adopted by reference as the plumbing code of the city of Carlsbad except for the changes, additions, and amendments set forth in this chapter, which shall supersede such provisions of said code.

~~18.16.030 Administrative authority and assistants.~~ Building Official designated.

~~Whenever the term "administrative authority" is used in this code it means the community development director or his authorized representatives.~~ The building official or authorized representative of the city is designated as the person who shall enforce the provisions of the California Plumbing Code as amended.

18.16.040 Expiration of permit.

Every permit issued by the building official under the provisions of this code shall expire by limitation and become null and void if the work authorized by such permit is not commenced within 180 days from date of such permit, or if the work authorized by such permit is suspended or abandoned at any time after the work is commenced for a period of 180 days. Before such work can be recommenced a new permit shall first be obtained, and the fee therefore shall be one half the amount required for a new permit for such work provided no changes have been made, or will be made, in the original plans and specifications for such work, and provided, further, that such suspension or abandonment has not exceeded one year. Within the overall one-year life of a permit any failure to commence work or any suspension of work caused solely by delay incident to securing approval of a coastal development permit pursuant to Division 20 of the Public Resources Code shall not constitute part of the respective 180 day period presented for expiration of a permit.

1 **18.16.060 Standards for installation and materials.**

2 All installations and materials shall be in conformity with the provisions of this code and with
3 approved standards of safety as to life and property. All installations on any public or private
4 piers or on the tidelands shall be in conformity with the provisions of this code. The disposal of
5 the effluent must meet with the approval of the director of public health.

6 ~~18.16.070 Section 402.3 added Ultra-low flush toilets.~~

7 ~~Section 402.3 is added to the Uniform Plumbing Code to read as follows:~~

8 ~~Effective November 3, 1991, only tank-type water closets that use an average of 1.6 gallons of~~
9 ~~water per flush or less and urinals and associated flushometer valves that use an average of~~
10 ~~one gallon of water per flush or less shall be installed in new construction. All tank-type water~~
11 ~~closets, urinals and associated flushometer valves shall be approved by the Building Official as~~
12 ~~meeting adequate standards of safety and sanitation. The provisions of this Section shall apply~~
13 ~~to existing buildings only when toilets are being replaced in existing bathrooms or installed in~~
14 ~~new bathrooms.~~

15 ~~Exceptions: The Building Official may allow the use of standard flush toilets or urinals when, in~~
16 ~~the opinion of the Building Official, the configuration of the building drainage system requires a~~
17 ~~greater quantity of water to adequately flush the system.~~

18 ~~The requirements for the maximum flush rate of one and 1.6 gallons per flush may be~~
19 ~~suspended for a specified period of time by a resolution adopted by the City Council upon a~~
20 ~~finding by the Building Official that there is an inadequate supply of water closets or urinals~~
21 ~~specified in this Section to satisfy the needs of new construction. Further, when an~~
22 ~~unreasonable hardship can be demonstrated by an applicant the Building Official may grant an~~
23 ~~exemption to the requirements of this Section.~~

24 ~~The basis for the finding of unreasonable hardship shall be documented and kept with the~~
25 ~~building file.~~

26 ~~Fixtures installed in mobile homes approved by the State of California are exempt from the~~
27 ~~requirements of this Section.~~

28 **18.16.080 Section 1622A.0 added—Bypass tees.**

Section 1622A.0 is added to the California Plumbing Code to read as follows:

On the effective date of this Ordinance, all new buildings where recycled water will be used for irrigation shall install on the building supply pipe a bypass tee for recycled water cross-connection shut down testing. The bypass tee shall be constructed of copper and the size shall match the building supply pipe size approved for the building. The bypass tee shall be connected to the building supply pipe above ground and before the pressure regulator at a point just before it enters the building. Both end connections to the building supply pipe shall be made using a union. A bronze full port straight ball valve with handle shall be installed on the inlet side of the bypass tee for the building supply pipe, and sized to match the inlet tee. A bronze full port straight ball valve with tee-head and padlock wing shall be installed on the side inlet tee, which shall be threaded with a male hose thread adapter to match the building supply pipe size. The work shall be in conformance with Engineering Standard Drawing W35. All shut down tests using the bypass tee shall be conducted with a backflow prevention device to reduce potential for contamination of the potable water system.

1 **II. Modifications**

2 **18.16.120 Section 102.3.1 amended—Violations.**

3 Section 102.3.1 of the California Plumbing Code is amended to read as follows:

4 Any person or corporation who violates any of the provisions of this chapter is guilty of an
5 infraction except for the fourth or each additional violation of a provision within one year which
6 shall be a misdemeanor. Penalties for a violation of this chapter shall be as designated in
7 Section 1.08.010 of this code.

8 **18.16.125 Certificate of noncompliance.**

- 9 1. If the building official determines there is a violation of this chapter, it may result in the
10 building official filing, in the office of the county recorder, a certificate of noncompliance.
11 Such certificate shall describe the property, certify noncompliance, and state that the owner
12 or person in control of the property has been so notified. If a certificate of noncompliance is
13 filed, and where the permit, inspection, and/or approval required is obtained, the building
14 official shall file a certificate of compliance with the county recorder certifying compliance.
15 Until a certificate of compliance has been filed, all applications for grading permits, use
16 permits, major and minor subdivisions, rezones, specific plans, specific plan amendments,
17 general plan amendments, discretionary approvals and building permits may be denied.
- 18 2. When the building official or the authorized representative thereof determines that
19 compliance to this chapter is not had, they shall provide written notice, by certified mail
20 return receipt requested, to the owner or person in control of the property. Such notice shall
21 contain: (1) a description of the property; (2) the condition or condition that has caused the
22 noncompliance; (3) a reasonable time limit to bring the property into compliance; (4) the
23 potential to record a certificate of noncompliance; and (5) the right to appeal.
- 24 3. Within ten days from the date of giving of notice, the owner or person in control of the
25 property may file an appeal of the finding of noncompliance to the city council. Such appeal
26 shall be in writing and shall identify the property subject to the certificate of noncompliance.
27 The city council must hear the appeal within 60 days from the filing of the appeal or at such
28 later date as may be agreed to by the appellant. Notice of the hearing date shall be given in
writing. The hearing date shall be no sooner than five days from the date when notice of the
hearing is given to the appellant and to the building official. The decision of the city council is
final.

18.16.130 Section 103.4.1 amended—Permit fees.

~~Section 103.4.1 of the Uniform Plumbing Code is amended to read:~~

~~(a) Permit Fees.~~

~~Every applicant for a permit to do work regulated by this code shall state in writing on the
application form provided for that purpose the character of work proposed to be done and such
information pertinent thereto as may be required. Such applicant shall pay for each permit
issued at the time of issuance a fee in accordance with the following schedule and at the rate
provided for each classification shown herein.~~

~~Any person who commences any work for which a permit is required by this code without first
having obtained a permit therefor shall, if subsequently permitted to obtain a permit, pay double
the permit fee fixed by this section for such work. This provision shall not apply to emergency~~

1 work when it is proved to the satisfaction of the Administrative Authority that such work was
2 urgently necessary and that it was not practical to obtain a permit therefor before the
3 commencement of the work. In all such cases a permit must be obtained as soon as it is
practical to do so, and if there is an unreasonable delay in obtaining such permit, a double fee
shall be charged.

4 For the purpose of this section a sanitary plumbing outlet on or to which a plumbing fixture or
5 appliance may be set or attached shall be construed to be a fixture. Fees for reconnection and
6 retest of existing plumbing systems in relocated buildings shall be based on the number of
plumbing fixtures, gas systems, water heaters, etc., involved.

7 For factory-built housing no fixture or water heater fee shall be charged for those fixtures and
8 water heaters installed at the factory when the structure has been manufactured in accordance
with the State Factory-Built Housing Law.

9 SCHEDULE OF FEES

| | | |
|----|--|----------------|
| 10 | Permit Issuance | |
| 11 | | |
| 12 | 1. For issuing each permit | \$20.00 |
| 13 | 2. For issuing each supplemental permit | \$10.00 |
| 14 | Unit Fee Schedule (in addition to Items 1 and 2 above) | |
| 15 | | |
| 16 | 1. For each plumbing fixture on one trap or a set of fixture on one trap | \$ 7.00 |
| 17 | (including water, drainage piping and backflow protection therefor) | |
| 18 | 2. For each building sewer and each trailer park sewer | \$15.00 |
| 19 | 3. Rainwater systems—per drain (inside building) | \$ 7.00 |
| 20 | 4. For each cesspool (where permitted) | \$25.00 |
| 21 | 5. For each private sewage disposal system | \$40.00 |
| 22 | 6. For each water heater and/or vent | \$ 7.00 |
| 23 | 7. For each gas piping system of one to five outlets | \$ 5.00 |
| 24 | 8. For each additional gas piping system outlet, per outlet | \$ 1.00 |
| 25 | 9. For each industrial waste pretreatment interceptor including its trap and | \$ 7.00 |
| 26 | vent, excepting kitchen-type grease interceptors functioning as fixture traps | |
| 27 | | |
| 28 | | |

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|----|--|---------------------|
| 1 | 10. For each installation, alteration or repair of water piping and/or water- | \$ 7.00 |
| 2 | treating equipment, each | |
| 3 | | |
| 4 | 11. For each repair or alteration of drainage or vent piping, each fixture | \$ 7.00 |
| 5 | 12. For each lawn sprinkler system on any one meter including backflow- | \$ 7.00 |
| 6 | protection devices therefor | |
| 7 | 13. For atmospheric-type vacuum breakers not included in item 12: | |
| 8 | 1 to 5 | \$ 5.00 |
| 9 | over 5, each | \$ 1.00 |
| 10 | | |
| 11 | 14. For each backflow protective device other than atmospheric type vacuum- | |
| 12 | breakers: | |
| 13 | 2 inch diameter and smaller | \$ 7.00 |
| 14 | over 2 inch diameter | \$15.00 |
| 15 | Other Inspections and Fees- | |
| 16 | 1. Inspections outside of normal business hours | \$30.00* |
| 17 | 2. Reinspection fee | \$30.00 |
| 18 | 3. Inspections for which no fee is specifically indicated | \$30.00* |
| 19 | 4. Additional plan review required by changes, additions or revisions to- | \$30.00* |
| 20 | approved plans, (minimum charge one-half hour) | |
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**Chapter 18.18
SOLAR ENERGY CODE**

Sections:

- 18.18.010** **Adoption of the Uniform Solar Energy Code.**
18.18.020 **Building Official designated.**
18.18.030 **Violations.**
18.18.040 **Permit fees.**

18.18.010 **Adoption of the Uniform Solar Energy Code.**

The Uniform Solar Energy Code, 2009 Edition, copyrighted by the International Association of Plumbing and Mechanical Officials, is adopted by reference as the solar energy code of the city of Carlsbad.

18.18.020 **Building Official designated.**

The building official or authorized representative of the city is designated as the person who shall enforce the provisions of the Uniform Solar Energy Code as amended.

18.18.030 **Violations.**

Any person or corporation who violates any of the provisions of this chapter is guilty of an infraction except for the fourth and each additional violation of a provision within one year which shall be a misdemeanor. Penalties for a violation of this chapter shall be as designated in Section 1.08.010 of this code.

18.18.040 **Permit fees.**

The fee for each permit shall be as set forth in the City's master fee schedule or by resolution of the City Council.

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Chapter 18.20
RESIDENTIAL CODE

Sections:

- 18.20.010 Adoption.**
- 18.20.020 Building Official designated.**
- 18.20.030 Permit fees.**

18.20.010 Adoption.

The 2010 California Residential Code including Appendix Chapter H, copyrighted by The California Building Standards Commission, is adopted by reference as the Residential Building Code of the City of Carlsbad.

18.20.020 Building Official designated.

The Building Official is designated as the person who shall enforce all the provisions of the California Residential Code.

18.20.030 Permit fees.

The fees for each permit shall be as set forth in the city's master fee schedule or by a resolution of the City Council.

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Chapter 18.21
GREEN BUILDING STANDARDS CODE

Sections:

- 18.21.010** **Adoption.**
- 18.21.020** **Building Official designated.**
- 18.21.030** **Permit fees.**

18.21.010 **Adoption.**

The 2010 California Green Building Standards Code copyrighted by The California Building Standards Commission, is adopted by reference as the Green Building Standards Code of the City of Carlsbad.

18.21.020 **Building Official designated.**

The Building Official is designated as the person who shall enforce all the provisions of the California Green Building Standards Code.

18.21.030 **Permit fees.**

The fees for each permit shall be as set forth in the city's master fee schedule or by a resolution of the City Council.

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1 Chapter 18.30
2 ENERGY CONSERVATION REGULATIONS

3 Sections:

- 4 18.30.010 Adoption.
5 18.30.020 Purpose and application.
6 18.30.030 Building Official designated.
7 18.30.040 Solar water heater preplumbing required.
8 18.30.050 Permit fees.

9 18.30.010 Adoption.

10 The California Energy Code, 2010 Edition, copyrighted by the California Building Standards Commission is adopted by reference as the energy code for the city of Carlsbad.

11 18.30.020 Purpose and application.

12 This chapter is intended to decrease dependence upon nonrenewable energy sources by
13 encouraging and in some instances requiring the installation of devices, structures or materials
14 for the conservation of energy on certain structures within the city. The provisions of this chapter
15 are intended to supplement and not supersede other regulations and requirements imposed by
16 this title.

17 18.30.030 Building Official designated.

18 The building official or authorized representative of the city is designated as the person who
19 shall enforce the provisions of the California Energy Code as amended.

20 18.30.040 Solar water heater preplumbing required.

- 21 1. All new residential units shall include plumbing specifically designed to allow the later
22 installation of a system which utilizes solar energy as the primary means of heating domestic
23 potable water. No building permit shall be issued unless the plumbing required pursuant to
24 this section is indicated in the building plans. This section shall apply only to those
25 residential dwelling units for which a building permit was applied for after the effective date
26 of the ordinance adopting this chapter.
- 27 2. Exception. The provisions of this section can be modified or waived when it can be
28 satisfactorily demonstrated to the building official that solar preplumbing is impractical due to
shading, building orientation, construction constraints or configuration of the parcel.

18.30.050 Permit fees.

The fees for each permit shall be as set for in the city's master fee schedule or by a resolution of
the City Council.

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