

1 [Health, Building Codes - Ventilation Requirement for Urban Infill Development]

2

3 **Ordinance amending the Health Code, Article 38, to require an enhanced ventilation**
 4 **system for sensitive use projects within the Air Pollutant Exposure Zone, and**
 5 **establishing document review fees; amending the Building Code to correspond to the**
 6 **Health Code changes; and making environmental findings, and findings of consistency**
 7 **with the General Plan, and the eight priority policies of Planning Code, Section 101.1.**

8 NOTE: **Unchanged Code text and uncodified text** are in plain Arial font.
 9 **Additions to Codes** are in *single-underline italics Times New Roman font*.
 10 **Deletions to Codes** are in *strikethrough italics Times New Roman font*.
 11 **Board amendment additions** are in double-underlined Arial font.
 12 **Board amendment deletions** are in ~~strikethrough Arial font~~.
 13 **Asterisks (* * * *)** indicate the omission of unchanged Code
 14 subsections or parts of tables.

15 Be it ordained by the People of the City and County of San Francisco:

16 Section 1.

17 The Planning Department has determined that the actions contemplated in this
 18 ordinance comply with the California Environmental Quality Act (California Public Resources
 19 Code Sections 21000 et seq.). Said determination is on file with the Clerk of the Board of
 20 Supervisors in File No. ____ and is incorporated herein by reference.

21 Section 2. The Health Code is hereby amended by revising Section 3801 to 3813, to
 22 read as follows:

23 **SEC. 3801. SHORT TITLE.**

24 This Article shall be entitled "~~*Air Quality Assessment and Ventilation Requirement Enhanced*~~
 25 ~~*Ventilation Required*~~ for Urban Infill-~~*Residential Sensitive Use*~~ Developments ~~*in the Air Pollutant*~~
 26 ~~*Exposure Zone.*~~"

1 **SEC. 3802.FINDINGS.**

2 ~~(a) — Motor vehicles are a major source of air pollution in the United States, particularly in~~
3 ~~urban areas;~~

4 (a) Scientific studies show that exposure to particulate matter from air pollution leads to
5 significant human health problems, including: aggravated asthma; chronic bronchitis; reduced lung
6 function; irregular heartbeat; heart attack; and premature death in people with heart or lung disease.
7 Exposure to air pollutants that are carcinogens can also have significant human health consequences.
8 For example, exposure to diesel exhaust is an established cause of lung cancer.

9 (b) Heart disease and stroke are the first and fourth leading causes of death in the U.S,
10 respectively. Air pollution affects heart health and can trigger or contribute to heart attacks and
11 strokes. One in three Americans has heart or blood vessel disease and is at higher risk from air
12 pollution. Impacts on the lungs may take several forms. Short-term effects include deficits in lung
13 function that can limit breathing, especially during exercise. Irritants from air pollution may cause
14 airway constriction or chest tightening that is uncomfortable or limiting to normal activity. These
15 changes in lung function are sometimes accompanied by underlying lung tissue inflammation which
16 over the long term may lead to chronic lung disease. Exposure to air pollutants may be a contributing
17 factor to leading causes of death recorded for San Francisco’s population (ischemic heart disease;
18 lung, bronchus and tracheal cancers; cerebrovascular disease; chronic obstructive pulmonary disease;
19 hypertensive heart disease and lower respiratory infection). ~~Pollution from motor vehicles imposes~~
20 ~~severe health burdens on children and families living near freeways and busy roadways. Health~~
21 ~~research has consistently shown that~~

22 (c) ~~P~~ Persons living in close proximity to air pollution sources, such as freeways or
23 busy roadways, have poorer lung functions and are more susceptible to developing asthma
24 and other respiratory problems, compared with persons living at a greater distance; from such
25 sources. The California Air Resources Board’s 2005 Land Use Guidance document, “Air Quality And

1 Land Use Handbook: A Community Health Perspective,” reviewed traffic-related air pollution studies
2 and found that particulate matter pollution levels decrease by about 70 percent at 500 feet from
3 freeways and high-traffic roadways, defined as urban roads with 100,000 vehicles/day or rural roads
4 with 50,000 vehicles/day.

5 ~~(e) — To avoid the health problems associated with exposure to roadway pollution, the~~
6 ~~California Air Resources Board recommends avoiding the placement of residential and other sensitive~~
7 ~~uses within 500 feet (approximately 150 meters) of busy freeways and other busy roadways. However,~~
8 ~~significant residential development in the state is occurring in urban infill sites, near freeways or busy~~
9 ~~arterial roadways, potentially increasing these residents' exposure to air pollutants and their~~
10 ~~associated health risks; and~~

11 ~~(d) — This situation is exacerbated in the City of San Francisco, which, by virtue of being~~
12 ~~located on a peninsula, has a limited amount of land available for new residential development.~~

13 ~~(d) — Proximity to sources of air pollution increases exposure, and proximity to sources is~~
14 ~~established to be more common for the poor and for certain ethnic minorities.~~

15 ~~(e) — Consequently, health vulnerability varies among neighborhoods and populations within~~
16 ~~San Francisco, as measured by population health records of air pollution-associated hospital~~
17 ~~discharges and emergency room visits, and non-accident mortality. Health vulnerable populations are~~
18 ~~likely to have more significant health consequences from air pollutant exposure compared to~~
19 ~~populations that are less vulnerable.~~

20 ~~(f) — Existing regulatory control measures, often focused on new stationary sources of~~
21 ~~emissions and average regional air pollution concentrations, are not sufficient to address all local~~
22 ~~sources of exposure or disparities in exposure.~~

23 ~~(g) — “Sensitive Use” buildings have the highest proportion of individuals who are most~~
24 ~~vulnerable to air pollutant exposures.~~

1 (h) Available technologies exist to protect sensitive uses from air pollution health effects.
2 Available and accepted air pollution modeling technology allows for the estimation of certain air
3 pollutant concentrations for individual land parcels. Furthermore, available building ventilation and
4 engineering technologies provide mechanisms to protect indoor environments from the infiltration of
5 ambient air pollutants.

6 **SEC. 3803. PURPOSES AND GOALS.**

7 (a) The purpose of this Article 38 is to protect the public health and welfare by establishing
8 an Air Pollutant Exposure Zone and imposing an enhanced ventilation requirement for all urban infill
9 sensitive use development within the Air Pollutant Exposure Zone.

10 (b) The goals of this Article 38 are to maintain and increase the stock of infill housing and
11 other sensitive use development in the City while reducing the risk to human health from air pollutants
12 among occupants of, and visitors to, buildings in the Air Pollutant Exposure Zone.

13 **SEC. 38034. DEFINITIONS.**

14 For the purposes of this Article 38, the following words shall have the following
15 meanings:

16 ~~(a) — "Building" means a new structure containing ten or more dwelling units as those terms~~
17 ~~are defined in the San Francisco Building Code.~~

18 ~~(b) — "Department" means the San Francisco Department of Public Health.~~

19 ~~(c) — "Director" means the Director of the San Francisco Department of Public Health or the~~
20 ~~Director's designee.~~

21 ~~(d) — "Local Roadway Traffic Sources" means traffic generated on roadways within 500 feet~~
22 ~~from the site.~~

23 ~~(e) — "PM 2.5" means solid particles and liquid droplets found in the air, that are less than~~
24 ~~2.5 micrometers in diameter.~~

1 (f) ~~—“Potential Roadway Air Pollutant Exposure Zone” means those areas within the~~
2 ~~City and County of San Francisco~~ which, by virtue of their proximity to ~~freeways and major~~
3 ~~roadways, may exhibit high PM 2.5 concentration attributable to Local Roadway Traffic Sources. air~~
4 ~~pollution emissions sources, including Freeways, have substantially greater concentrations of air~~
5 ~~pollutants. The Air Pollutant Exposure Zone shall be modeled according to specific risk factors defined~~
6 ~~in the Rules and Regulations, and will include at a minimum, criteria for maximum allowed excess~~
7 ~~cancer risks and maximum PM_{2.5} concentrations; these criteria shall be more stringent in Health~~
8 ~~Vulnerable Locations, as defined below.~~

9 (g) ~~—“Potential Roadway Exposure Zone” means a map, prepared and periodically updated~~
10 ~~by the Director and available to the public in the Department's website, depicting the Potential~~
11 ~~Roadway Exposure Zone.~~

12 “Building” means a building that contains a “Sensitive Use” and that is either:

13 (1) a new building; or

14 (2) a building undergoing a “Major Alteration to Existing Building” as defined by
15 the San Francisco Green Building Code; or

16 (3) a building undergoing a San Francisco Planning Department permitted change
17 of use.

18 “City” means the City and County of San Francisco.

19 “Department” means the San Francisco Department of Public Health.

20 “Director” means the Director of the San Francisco Department of Public Health or the
21 Director's designee.

22 “Enhanced Ventilation” means a ventilation system capable of achieving the protection from
23 particulate matter (PM_{2.5}) equivalent to that associated with a Minimum Efficiency Reporting Value
24 (MERV) 13 filtration (as defined by American Society of Heating, Refrigerating and Air-Conditioning
25 Engineers (ASHRAE) standard 52.2).

1 “Freeway” refers to freeways as defined in the San Francisco General Plan, Transportation
2 Element.

3 “Health Vulnerable Locations” means those San Francisco zip codes, census tracts or other
4 defined locations having the highest percentage of health vulnerable residents, based on criteria such
5 as State discharge data from respiratory and cardiovascular related hospitalizations, non-accident
6 mortality, or other criteria as determined by the Director and specified in the Rules and Regulations
7 enacted under this Article.

8 “PM_{2.5}” means solid particles and liquid droplets found in the air, that are less than or equal to
9 2.5 micrometers (µm) in diameter.

10 “Sensitive Use” means:

11 (1) any building or facility designed for residential use, including but not limited to
12 those defined by City, state or federal law and regulations, excluding Tourist Hotels;

13 (2) any ~~building or~~ facility serving specific sensitive populations, including but not
14 limited to California Department of Social Services (CDSS)-licensed Adult Day Care Centers, Adult
15 Support Centers, Child Care Centers, Family Child Care Homes, Infant Care Centers, School-Aged
16 Child Care Centers, and Community Treatment Centers;

17 (3) any California Department of Education (CDE)-licensed schools;

18 (4) any California Department of Public Health (CDPH)-licensed Health Care
19 Facilities with 24-hour care, except for CDPH-licensed hospitals, which are subject to specific
20 regulations;

21 (5) any California Building Code Section 305-defined occupancies of Educational
22 Group E;

23 (6) any California Building Code Section 308-defined occupancies of Institutional
24 Group I; and

1 (7) any California Building Code Section 310-defined occupancies of Residential

2 Group R.

3 (4) "Site" means a parcel of land as defined in the San Francisco Building Code.

4 **SEC. 38045. APPLICABILITY OF ARTICLE.**

5 This Article ~~38~~ shall apply to ~~newly constructed~~ buildings containing ~~ten or more dwelling~~
6 ~~units~~ any Sensitive Use located on a site identified as ~~-within the Potential Roadway Exposure Zone,~~
7 ~~and that have been determined to have a PM 2.5 concentration at the proposed site greater than 0.2~~
8 ~~ug/m3 attributable to Local Roadway Traffic Sources, as defined herein.~~ Air Pollutant Exposure Zone
9 that are either:

10 (a) Newly constructed; or

11 (b) Undergoing a "Major Alteration to Existing Building" as defined by the San Francisco
12 Green Building Code; or

13 (c) The subject of an application for a San Francisco Planning Department-permitted
14 Change of Use.

15 **SEC. 38056. POTENTIAL ROADWAY AIR POLLUTANT EXPOSURE ZONE AND**
16 **POTENTIAL ROADWAY AIR POLLUTANT EXPOSURE ZONE MAP.**

17 (a) Pursuant to Section 4.110 of the Charter of the City and County of San
18 Francisco, the Director shall create ~~a Potential Roadway~~ an Air Pollutant Exposure Zone Map,
19 ~~depicting the Potential Roadway Exposure Zone according to Rules and Regulations as authorized by~~
20 Section 3809. The Air Pollutant Exposure Zone Map shall depict all locations in the City where the
21 estimated cumulative PM_{2.5} concentration is greater than 10 ug/m3 or where the estimated cumulative
22 excess risk of cancer from air pollutants resulting from lifetime (70 year) exposure is greater than 100
23 in a million. Additionally, the Air Pollutant Exposure Zone Map shall include all locations within 500
24 feet of any Freeway, if those locations were not otherwise captured by modeling estimates. Within
25 Health Vulnerable Locations, the Air Pollutant Exposure Zone Map shall depict all locations where the

1 estimated cumulative PM_{2.5} concentration is greater than 9 µg/m³ or where the estimated cumulative
2 excess risk of cancer from air pollutants resulting from lifetime (70 year) exposure is greater than 90 in
3 a million. The Director shall update the Air Pollutant Exposure Zone Map to identify new sources,
4 updated pollutant standards, additional pollutants and standards for those pollutants, and updated
5 methodologies in accordance with Section 3809 and the accompanying Rules and Regulations for this
6 Article 38.

7 (b) The Director shall ~~from time to time, at least once every five years,~~ update the
8 ~~Potential Roadway Exposure Zone Map, Rules and Regulations governing creation of the Air Pollutant~~
9 ~~Exposure Zone Map~~ to account for changes in ~~circumstances that lead to changes in the Potential~~
10 ~~Roadway Exposure Zone, information~~ including, but not limited, to:

- 11 (1) Information available to estimate air pollutants of health concern;
- 12 (2) Information available to determine Health Vulnerable Locations; and
- 13 (3) Information that may affect delineation of the Air Pollutant Exposure Zone, including,
14 but not limited to:

- 15 ~~(1)(A) Construction, expansion or modification of new major roadways in residential areas;~~
- 16 ~~(2)(B) Changes in traffic patterns in the City's roadway system; or~~
- 17 ~~(3) Specific scientific data showing that certain areas should be included in the Potential~~
18 ~~Roadway Exposure Zone Map.~~

- 19 (C) Changes in area sources or siting of industrial or commercial sources of air pollution; and
- 20 (D) Climatic factors for which there is evidence of changes to air quality.

21 (c) The Director shall post the ~~Potential Roadway Air Pollutant~~ Exposure Zone Map ~~in~~
22 on the Department's website, and make paper copies of the map available to the public upon
23 request.

24 (d) In creating and updating the ~~Potential Roadway Air Pollutant~~ Exposure Zone Map,
25 the Director shall follow the procedures ~~of Section 3809, and shall make specific findings explaining~~

1 *how the boundaries of the Potential Roadway Exposure Zone Map meet the definition of Section*
2 *3803(f) specified in Section 3809.*

3 (e) The *current Potential Roadway Air Pollutant Exposure Zone Map is attached to this*
4 *Ordinance as Attachment A on file with the Clerk of the Board of Supervisors in File No. _____.*

5 **~~SEC. 3806. AIR QUALITY ASSESSMENT AND AIR QUALITY REPORT.~~**

6 (a) ~~Projects meeting the conditions of Section 3804 shall have performed an Air Quality~~
7 ~~Assessment, to evaluate the concentration of PM 2.5 from Local Roadway Traffic Sources at the site.~~
8 ~~All locations at the site where residential buildings or construction may occur shall be evaluated. The~~
9 ~~Department shall develop guidance, pursuant to Section 3809, setting forth what types of analyses shall~~
10 ~~be conducted. The project sponsor shall follow the Department's guidance, unless an alternative~~
11 ~~proposal is approved in writing by the Director.~~

12 (b) ~~At the completion of the Air Quality Assessment required by Section 3806(a), an Air Quality~~
13 ~~Report shall be submitted to the Director. The Air Quality Report shall contain the following~~
14 ~~information:~~

15 (1) ~~The names, addresses and professional expertise of the persons who conducted the Air~~
16 ~~Quality Assessment;~~

17 (2) ~~An explanation of the methodology used in the Air Quality Assessment; and~~

18 (3) ~~The results of the Air Quality Assessment.~~

19 (c) ~~Review by the Director. The Director shall determine whether the Air Quality Report~~
20 ~~required by this Article was conducted as required by this Article, and whether the Air Quality Report~~
21 ~~is complete. If the Air Quality Report was not conducted as required by this Article or does not comply~~
22 ~~with the requirements of this Section, the Director shall notify the project sponsor in writing within 30~~
23 ~~days of receipt of the Air Quality Report, indicating the reasons the report is unacceptable. A copy of~~
24 ~~the notification shall be sent to the Director of building Inspection.~~

1 ~~(d) Finding of No Dangerous PM 2.5 Concentration. If the Air Quality Report indicates that the~~
2 ~~concentration level of PM 2.5 from Local Roadway Traffic Sources at the site is less than 0.2 ug/m3,~~
3 ~~the Director shall provide the project sponsor with written notification that the project has complied~~
4 ~~with the requirements of this Article.~~

5 **SEC. 3807. ENHANCED VENTILATION REQUIREMENT.**

6 (a) ~~If the Air Quality Report indicates that the concentration level of PM 2.5 from Local~~
7 ~~Roadway Traffic Sources at the site is greater than 0.2 ug/m3 the project shall:~~

8 ~~(1) be designed, or relocated on the site in a way that would avoid residential exposure to PM~~
9 ~~2.5 concentration from Local Roadway Traffic Sources greater than 0.2 ug/m3, as demonstrated by the~~
10 ~~Air Quality Report, or~~

11 ~~(2) Any person or entity to whom this Article 38 applies, as defined in Section 3805, shall~~
12 submit to the Director an Enhanced Ventilation Proposal, prepared by, or under the supervision
13 of a licensed mechanical engineer or other individual authorized by the California Business and
14 Professions Code Sections 6700-6799 (Professional Engineers Act) to design professional, to install in
15 the project a mechanical ventilation systems to that meet the requirements of this Article 38 and San
16 Francisco Building Code Section 1203.5. An Enhanced Ventilation Proposal shall include the
17 name, title and license number of the person submitting such proposal. Building permit documents
18 submitted to the Department of Building Inspection shall incorporate designs and details necessary for
19 the construction of such ventilation system.

20 (b) ~~The Enhanced Ventilation Proposal shall explain in detail how the project will~~
21 achieve the standards mandated by this Article 38 and accompanying the Rules and Regulations
22 as described and updated according to Section 3809, San Francisco Building Code Section
23 1203.5. The, and any relevant amendments or revisions thereto. The Enhanced Ventilation Proposal
24 shall include a statement signed by the licensed design professional person who prepared it, in
25 accordance with the requirements of Section 3807(a), certifying that in his or her judgment the

1 ventilation system proposed will be capable of ~~removing~~ ^{>80% of ambient PM 2.5} achieving the
2 protection from ~~habitable areas of dwelling units.~~ particulate matter (PM_{2.5}) equivalent to that
3 associated with MERV 13 filtration (as defined by ASHRAE standard 52.2). In updates to the Rules and
4 Regulations, the Director may specify additional or alternative protective equivalents as technology
5 and research dictate.

6 (c) The Director shall review the Enhanced Ventilation Proposal and may require
7 additional modification or justification prior to the Director's approval. The Director shall issue a
8 letter to the Department of Building Inspection Permit Services Energy/Mechanical Plan Review
9 Section identifying and attaching the letter describing the approved Enhanced Ventilation Proposal.

10 (d) Building permit documents submitted to the Department of Building Inspection shall
11 incorporate all designs and details necessary for the construction of the approved Enhanced
12 Ventilation system. The Department of Building Inspection shall review submitted plans to assure
13 compliance with the Director-approved Enhanced Ventilation proposal and shall not issue permits for
14 the construction, installation, or modification of the Enhanced Ventilation systems unless it is in
15 compliance with the approved proposal.

16 **SEC. 3808. Maintenance of Documents by ~~DIRECTOR~~DEPARTMENT.**

17 The ~~Air Quality Report, Enhanced~~ Ventilation Proposal, Certification and related
18 documents shall become part of the file maintained by the Department. Such file shall be
19 available to the public upon request.

20 **SEC. 3809. RULES AND REGULATIONS.**

21 (a) ~~Adoption of Rules. The Director may adopt, and may thereafter amend, rules,~~
22 ~~regulations and guidelines that the Director deems necessary to implement the provisions of this~~
23 ~~Article. For the purposes of this Article, a public hearing before the Health Commission shall be held~~
24 ~~prior to the adoption or any amendment of the rules, regulations and guidelines recommended for~~
25 ~~implementation, including creation and amendments to update the Potential Roadway Exposure Zone~~

1 ~~Map. In addition to notices required by law, the Director shall send written notice, at least 15 days~~
2 ~~prior to the hearing, to any interested party who sends a written request to the Director for notice of~~
3 ~~hearings related to the adoption of rules, regulations and guidelines pursuant to this Section.~~

4 ~~In developing such regulations, the Director shall consider, inter alia, State and federal~~
5 ~~statutes, regulations and guidelines pertaining to the health effects of roadway air pollutants. The~~
6 ~~Director shall also~~ Within 90 days after the effective date of this revised Article 38, the Director shall
7 issue Rules and Regulations necessary to effectuate the purposes of this Article and to protect public
8 health and safety. Any person or entity as defined in Section 3805 shall comply with this Article, the
9 Rules and Regulations adopted by the Department, and all applicable local, state, and federal laws.

10 (b) The Director shall consult with the Planning Department's Environmental Review
11 Officer at least 30 days prior to initiating any amendments or modifications to ~~these rules or~~
12 ~~regulations, including changes to the Potential Roadway Exposure Zone Map, and shall seek such~~
13 ~~officer's concurrence on any proposed change~~ the Rules and Regulations.

14 (c) The Director shall ~~also, from time to time,~~ consult with the Municipal Green
15 Building Task Force, to coordinate and resolve any potential conflicts that may arise between
16 the San Francisco Green Building Ordinance Code and this Ordinance Article 38.

17 ~~(b)(d) Guidelines for Rules and Regulations. Rules, regulations and guidelines may shall be~~
18 ~~based address among others, on~~ the following, subjects at a minimum:

19 (1) Minimum standards for acceptable Air Quality Assessment tests. The minimum
20 standards shall be designed to assist interested persons including, but not limited to, the Director of the
21 Department of Building Inspection, other state and local public agencies and licensed design
22 professionals, to evaluate whether analyses, other than those required by Section 3806(a) must be
23 conducted to detect the presence of harmful roadway air pollutants;

24 The criteria used for the definition of "Health Vulnerable Locations" shall be at least as health-
25 protective as that of the Bay Area Air Quality Management District (BAAQMD) methodology.

1 BAAQMD methodology defines those zip codes in San Francisco in the worst quintile of Bay Area
2 health vulnerability scores based on two years of statewide hospitalization and emergency room visit
3 records, and estimated costs, for the following air pollution related conditions per zip code: Chronic
4 Obstructive Pulmonary Disease (COPD) Hospital Admissions, Pneumonia Hospital Admissions,
5 Myocardial Infarction (MI, Heart Attack) Hospital Admissions and Emergency Room Visits,
6 Cardiovascular Hospital Admissions (less MI), Asthma Emergency Hospital Admissions and
7 Emergency Room Visits, Asthma Hospital Admissions, Hospital Admissions for Respiratory Diseases,
8 combined with the non-accident mortality rate per zip code. For San Francisco, based on 2009-2011
9 health records, the zip codes in the worst quintile of Bay Area health vulnerability scores are 94102,
10 94103, 94105, 94124, and 94130. In updates to the Rules and Regulations, the Director may modify the
11 methodology to identify Health Vulnerable Locations as required to ensure the Air Pollutant Exposure
12 Zone Map is consistent with current scientific evidence.

13 (2) The criteria for creating and updating the Air Pollutant Exposure Zone Map and the
14 models underlying this map shall include, but not be limited to:

15 (A) Identification of parcels with lifetime excess cancer risk due to air pollution
16 greater than 100 cases per million population.

17 (B) Identification of parcels in Health Vulnerable Locations with lifetime excess
18 cancer risk due to air pollution greater than 90 cases per million population.

19 (C) Identification of parcels where $PM_{2.5}$ concentrations are greater than $10 \mu g/m^3$
20 (including ambient levels).

21 (D) Identification of parcels in Health Vulnerable Locations where $PM_{2.5}$
22 concentrations are greater than $9 \mu g/m^3$ (including ambient levels).

23 (E) Identification of parcels within 500 feet of any Freeway, if those locations were
24 not otherwise captured by modeling estimates.

25

1 (F) New research findings, particularly quantification of risk, that change the
2 Director's knowledge of how particulate matter and any other air pollutants affect public health.

3 (3) Required performance standards for Enhanced Ventilation Proposals must include the
4 following minimum criteria:

5 (A) Location of air intake for HVAC systems (Heating, Ventilation and Air
6 Conditioning) away from air pollution sources;

7 (B) Specification of filtration certified by the ASHRAE capable of achieving
8 protection from particulate matter (PM_{2.5}) equivalent to that associated with a MERV 13 filtration (as
9 defined by ASHRAE standard 52.2).

10 (4) Additional criteria for Enhanced Ventilation Proposals may include the following
11 project design information:

12 (A) Number of air exchanges per hour of outside filtered air;

13 (B) Building materials and/or design that limits unfiltered infiltration of outside air,
14 such as air sealing or maintenance of positive pressure within the building interior;

15 (C) Location of operable windows oriented away from air pollutant sources, to the
16 extent feasible;

17 (D) Other building design criteria that may reduce air pollution exposure to
18 residents;

19 (E) Other combinations of technologies and designs to achieve the goals of this
20 Article.

21 (2)(5) ~~Minimum education and experience~~ Certification and/or licensing requirements for the
22 persons who prepare Air Quality Assessments pursuant to Section 3806(a) and the Enhanced
23 Ventilation Proposals pursuant to Section 3807; ~~and~~ The Enhanced Ventilation Proposal must be
24 prepared by, or under the responsible charge of a person who is authorized by the California Business
25 and Professions Code Sections 6700-6799 (Professional Engineers Act), or any successor provisions,

1 to design mechanical ventilation systems that meet the requirements of this Article and San Francisco
2 Building Code Section 1203.5 and either:

3 (A) a licensed mechanical engineer, or

4 (B) an individual authorized by the California Business and Professions Code

5 Sections 6700-6799 (Professional Engineers Act) to design mechanical ventilation systems that meet
6 the requirements of this Article 38 and San Francisco Building Code Section 1203.5.

7 ~~(3) — Creation and Periodic Updates of the Potential Roadway Exposure Zone Map.~~

8 (6) Minimum criteria for maintenance and disclosure, including but not limited to:

9 (A) Minimum standards for proper maintenance, and

10 (B) Disclosure to buyers, lessees and renters that the building is located in an area
11 with substantial concentrations of air pollutants, and that the building includes an enhanced ventilation
12 system information about the proper use of the installed enhanced ventilation system.

13 (e) The Director may specify additional or alternative equivalents as justified by accepted
14 research including:

15 (1) addition or substitution of risk factor criteria;

16 (2) inclusion of other pollutants such as Nitrogen Dioxide; and

17 (3) exclusion of parameters.

18 (f) The Director shall specify that within Health Vulnerable Locations the Air Pollutant
19 Exposure Zone will be defined by more protective risk factors.

20 (g) The Director may develop standards for granting variances to this Article 38, on a case-
21 by-case basis.

22 **SEC. 3810. MAINTENANCE AND DISCLOSURE REQUIREMENTS.**

23 (a) The ventilation systems installed pursuant to Section 3807 shall be properly
24 maintained, following standard practices, and as specified by the manufacturer.

1 (b) ~~Project sponsors shall preserve and~~ Documentation of ~~their actions installing the~~
2 ~~installation and/or maintaining maintenance of the enhanced~~ ventilation systems ~~shall be preserved~~
3 for five years after installation.

4 (c) ~~Failure to properly maintain the enhanced ventilation system will be subject to~~
5 ~~enforcement and possible penalties under the Health Code Article 11, Nuisances, or other applicable~~
6 ~~sections.~~

7 (d) ~~Disclosure to buyers, lessees and renters shall be made in accordance with Rules and~~
8 ~~Regulations as specified in Section 3809(d)(6).~~

9 **SEC. 3811 FEES**

10 (a) ~~Review and approval of an Enhanced Ventilation Proposal..... \$984.00~~

11 (b) ~~Additional consultation, document review or inspection.....\$225.00 per hour~~

12 **SEC. 381~~12~~2. NO CONFLICT WITH FEDERAL OR STATE LAW.**

13 Nothing in this Article shall be interpreted or applied so as to create any requirement,
14 power, or duty in conflict with any federal or state law.

15 **SEC. 381~~23~~3. SEVERABILITY.**

16 If any section, subsection, sentence, clause, or phrase of this Article is for any reason
17 held to be invalid or unconstitutional by a decision of any court of competent jurisdiction, such
18 decision shall not affect the validity of the remaining portions of the Article. The Board of
19 Supervisors hereby declares that it would have passed this Article and each and every
20 section, subsection, sentence, clause, or phrase not declared invalid or unconstitutional
21 without regard to whether any portion of this Article would be subsequently declared invalid or
22 unconstitutional.

23 **SEC. 381~~34~~4. UNDERTAKING FOR THE GENERAL WELFARE.**

24 In adopting and implementing this Article, the City and County of San Francisco is
25 assuming an undertaking only to promote the general welfare. It is not assuming, nor is it

1 imposing in its officers and employees, an obligation for breach of which it is liable in money
2 damages to any person who claims that such breach proximately caused injury.

3
4 Section 3. The Building Code is hereby amended by amending Section 1203.5, to read
5 as follows:

6 **SEC. 1203.5. Amending third paragraph as follows:**

7 ~~Newly constructed~~ For all buildings containing ~~ten or more dwelling units~~ any sensitive land
8 use located within the ~~Potential Roadway Air Pollutant Exposure Zone and having a PM 2.5~~
9 ~~concentration at the proposed building site greater than 0.2 ug/m3 attributable to Local Roadway~~
10 ~~Traffic Sources, as determined by the Director of Public Health~~ pursuant to Article 38 of the San
11 Francisco Health Code, that are:

12 (a) Newly constructed;

13 (b) Undergoing a “Major Alteration to Existing Building” as defined by the San Francisco
14 Green Building Code; or

15 (c) Applying for a San Francisco Planning Department-permitted Change of Use,
16 such buildings shall incorporate an ~~have~~ enhanced ventilation systems designed and constructed
17 to ~~remove >80% of ambient PM 2.5 from habitable areas of dwelling units~~ be in compliance with San
18 Francisco Health Code Article 38.

19 Section 4. Effective Date. This ordinance shall become effective 30 days after
20 enactment. Enactment occurs when the Mayor signs the ordinance, the Mayor returns the
21 ordinance unsigned or does not sign the ordinance within ten days of receiving it, or the Board
22 of Supervisors overrides the Mayor’s veto of the ordinance

23 Section 5. Scope of Ordinance. In enacting this ordinance, the Board of Supervisors
24 intends to amend only those words, phrases, paragraphs, subsections, sections, articles,
25 numbers, punctuation marks, charts, diagrams, or any other constituent parts of the Municipal

1 Code that are explicitly shown in this ordinance as additions, deletions, Board amendment
2 additions, and Board amendment deletions in accordance with the "Note" that appears under
3 the official title of the ordinance.

4 APPROVED AS TO FORM:
5 DENNIS J. HERRERA, City Attorney

6 By: _____
7 VIRGINIA DARIO ELIZONDO
8 Deputy City Attorney

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