1	[Building Code -	· Hydrogen-Fueling Station Equipment]
2		
3	Ordinance ame	ending the Building Code to create a permit and permitting process for
4	Hydrogen-Fuel	ing Station Equipment installation; and affirming the Planning
5	Department's o	determination under the California Environmental Quality Act.
6	NOTE:	Unchanged Code text and uncodified text are in plain Arial font. Additions to Codes are in single-underline italics Times New Roman font.
7		Deletions to Codes are in strikethrough italics Times New Roman font. Board amendment additions are in double-underlined Arial font.
8 9		Board amendment deletions are in strikethrough Arial font. Asterisks (* * * *) indicate the omission of unchanged Code subsections or parts of tables.
10		
11	Be it orda	ained by the People of the City and County of San Francisco:
12		
13	Section 1. Findings.	
14	(a) The Planning Department has determined that the actions contemplated in this	
15	ordinance comp	ly with the California Environmental Quality Act (California Public Resources
16	Code Sections 21000 et seq.). Said determination is on file with the Clerk of the Board of	
17	Supervisors in F	File No and is incorporated herein by reference. The Board affirms this
18	determination.	
19	(b) On _	, the Building Inspection Commission considered this
20	ordinance at a c	duly noticed public hearing pursuant to Charter Section 4.121 and Building
21	Code Section 104A.2.11.2. A copy of a letter from the Secretary of the Building Inspection	
22	Commission regarding the Commission's recommendation is on file with the Clerk of the	
23	Board of Supervisors in File No	
24	(c) No lo	cal findings are required under California Health and Safety Code Section
25	17958.7 becaus	se the amendments to the Building Code contained in this ordinance do not

1	regulate materials or manner of construction or repair, and instead relate in their entirety to
2	administrative procedures for implementing the code, which are expressly excluded from the
3	definition of a "building standard" by California Health and Safety Code Section 18909(c).
4	(d) Consistent with California Government Code 65850.7, this ordinance implements a
5	permitting process of hydrogen-fueling stations that meets the requirements of state law.
6	
7	Section 2. Chapters 1A and 2 of the Building Code are hereby amended by revising
8	Sections 106A.1.16, 106A.1.16.1, 106A.1.16.2, 106A.1.16.3, and Section 202, to read as
9	follows:
10	106A.1.16 Electric Vehicle (EV) Supply Equipment and Hydrogen-Fueling Station
11	Equipment; permit and fee. An electrical permit obtained by a California state licensed
12	Electrical Contractor is required to install, alter, or modify any portion of the electrical system on
13	the property required for Electric Vehicle Supply Equipment (EVSE), as defined in Section 202
14	of this Code., and the alteration or modification of any portion of the electrical system on the
15	property. See Section 110A, Table 1A-E – Electrical Permit Fee Issuance and Inspection Fee
16	Schedule for the applicable <u>EV Charging Station</u> fees. <u>A Building Permit is required to install</u>
17	Hydrogen-Fueling Station Equipment (HFSE), as defined in Section 202 of this Code. See Section
18	110A, Table 1A-A – Building Permit Fees based on valuation for applicable fee for HFSE.
19	EXCEPTION: A permit is not required to install a Residential Electrical Vehicle
20	Charger when a plug in type charger is utilizing a previously approved receptacle outlet.
21	106A.1.16.1 General requirements <u>for EVSE</u> .
22	1. The EV Charging Station and its installation shall comply with Article 625 and
23	other applicable sections of the Electrical Code, and all applicable sections of the Mechanical
24	Code, Building Code, and Fire Code. The installation shall also meet any safety and

performance standards established by the Society of Automotive Engineers, the National

25

- Electrical Manufacturers Association, accredited testing laboratories such as Underwriters
 Laboratories, and the California Public Utilities Commission that the Building Official
- 3 determines shall apply.

- 2. New construction and certain major alterations, as those terms are defined in Section 202 of the Green Building Code, are subject to the requirements of Sections 4.103.3.3 and 5.103.3 and other applicable sections of the Green Building Code, per Ordinance No. 92-17, enacted in April 2017.
 - 3. All electrical materials, devices, fittings, and associated equipment shall be listed by a nationally recognized testing laboratory.
 - 4. Level 2 EVSE shall be connected and fastened in place per the manufacturer's instructions and Section 625.44 of the Electrical Code. The anchorage of either floor-mounted or wall-mounted stations shall comply with the Building Code and Electrical Code.
 - 5. For indoor locations, the coupling means of the EVSE shall be stored at a height of not less than 18 inches and not more than 48 inches above the finished floor level.
 - 6. For outdoor locations, the coupling means of the EVSE shall be stored or located at a height of not less than 24 inches above grade level.

106A.1.16.1.12 Application submittal requirements.

- 1. Consistent with existing procedures, the Department shall continue to allow a California state licensed Electrical Contractor registered with the Department to obtain an electrical permit for installation of electrical materials, devices, fittings, and associated equipment <u>for an EVSE</u>. Where the scope of a project, including installation of an EV Charger, solely requires an electrical permit, such a permit shall continue to be available electronically and over the counter to licensed Electrical Contractors registered with the Department. The Department shall publish guidance clarifying conditions where an electrical permit is sufficient.
 - 2. For projects which require additional review or permits, the Department shall

1	publish guidance clarifying when any or all of the following are required in order for an EV	
2	Charging Station permit to be complete. The application, and the information and	
3	documentation required by this Section 106A.1.16.1.12, may be submitted electronically.	
4	(a) an electrical plan and calculations signed and stamped by either a California	
5	registered Electrical Engineer or the licensed Electrical Contractor who is responsible for	
6	design and installation of the system;	
7	(b) a line diagram that includes all relevant information regarding the electrical	
8	charger, panels, raceways, wire types and sizes, utility service main breaker ampacity, and	
9	utility service voltage;	
10	(c) if applicable, identification of the type of EV Charger being installed;	
11	(d) current manufacturer specification sheets for major components of the system;	
12	(e) information from the manufacturer indicating whether or not ventilation is	
13	required;	
14	(f) if ventilation is required, a mechanical plan signed and stamped by either a	
15	California registered Mechanical Engineer or the licensed Mechanical Contractor responsible	
16	for the ventilation design;	
17	(g) a site plan approximately to scale that includes the locations of new and	
18	existing panels, meter, charging unit, and associated items;	
19	(h) a completed Department service load calculation form;	
20	(i) an electrical panel schedule; and	
21	(j) listing and labeling information from an approved nationally recognized testing	
22	laboratory.	
23	106A.1.16.1.23 Inspections. Inspections by the Electrical Division are required for EV	
24	Charging Station installations, and for any alteration or modification of the electrical system on	

the property, including the installation of EVSE.

1	106A.1.16.2 General Requirements for HFSE.
2	1. HFSE installation applications shall demonstrate the location of the proposed
3	installation is either: (a) zoned for Industrial or Commercial Use, as those terms are defined in the
4	Planning Code, and does not contain any residential units; or (b) has been developed as an Automotive
5	Service Station, as defined in Section 102 of the Planning Code.
6	2. The HFSE installation shall comply with: safety and performance standards established
7	by the International Association of Plumbing and Mechanical Officials (IAPMO), National Fire
8	Protection Association (NFPA), American Society of Mechanical Engineers (ASME), Compressed Gas
9	Association (CGA), SAE International, and accredited nationally recognized testing laboratories; all
10	applicable state laws and regulations pertaining to hydrogen fueling, including any rules established
11	by the State Air Resources Board, Energy Commission, or Department of Food and Agriculture
12	regarding safety, reliability, weights, and measures; and guidance established by the Governor's Office
13	of Business and Economic Development, as outlined in the Hydrogen Station Permitting Guidebook.
14	3. All materials, devices, fittings, and associated equipment shall be listed by a nationally
15	recognized testing laboratory and for use in hydrogen fueling systems.
16	4. New construction, as that term is defined in Section 202 of the Green Building Code, is
17	subject to the requirements of Section 5.103.3 and other applicable sections of the Green Building
18	Code, per Ordinance No. 92-17, enacted in April 2017.
19	106A.1.16.2.1 Application submittal requirements for HFSE.
20	Submittal documents may include, but are not limited to:
21	1. Existing and Proposed Site Plans drawn to scale, showing lot dimensions, existing and
22	proposed conditions, equipment locations, setback measurements, and equipment dimensions.
23	2. Elevation and perspective drawings showing hydrogen fueling equipment, dispensers,
24	and canopies.
25	3. Civil/Architectural plan set including grading, drainage, erosion control, construction

1	<u>aetalis, lanascaping, and irrigation plans.</u>
2	4. Fire plan set including hydrogen storage equipment details, setback compliance with
3	NFPA 2, hazardous area classification drawings, emergency shutdown devices, flame detectors, gas
4	sensors, alarms, fire extinguishers, and signage.
5	5. Building plan set including structural specifications, foundation plans, bollard details,
6	and framing details, signed and stamped by a California registered Civil or Structural Engineer.
7	6. Mechanical plan set including hydrogen piping layouts, equipment schedules,
8	ventilation provisions, and material specifications, signed and stamped by a California registered
9	Mechanical Engineer or licensed Contractor responsible for the design.
10	7. Electrical plan set including single-line diagrams, load schedules, grounding and
11	bonding details, hazardous location classifications, conduit schematics, low-voltage systems, and
12	specifications prepared in accordance with NFPA 70, IEEE, and IEC standards, signed and stamped
13	by a California registered Electrical Engineer or licensed Contractor.
14	8. Plumbing plan set including piping plans, schedules, materials, and installation details
15	for hydrogen fuel gas piping.
16	9. Energy compliance documents, including NRCC Title-24 Certificate of Compliance and
17	San Francisco M-04 Energy Inspection Checklist, where applicable.
18	10. Green Building compliance, including the San Francisco GS-3 Green Building
19	Checklist, if project valuation exceeds \$200,000 or involves new construction.
20	106A.1.16.2.2 Inspections for HFSE.
21	Inspections by the Department's Building, Electrical, Plumbing Divisions, and by the Fire
22	Department are required for HFSE installations and for any alteration or modification of the HFSE on
23	the property.
24	* * * *

1	SECTION 202 – DEFINITIONS
2	* * * *
3	ELECTRIC-READY. A building, project, or portion thereof that contains electrical
4	systems and designs that provide capacity for a future retrofit of a Mixed-Fuel Building to an
5	All-Electric Building. Electric-Ready includes sufficient space, drainage, electrical conductors
6	or raceways, bus bar capacity, and overcurrent protective devices to provide capacity for a
7	future retrofit to an All-Electric Building as specified in the Design Guidelines for Electric-
8	Ready Buildings published by the Department of Building Inspection.
9	HYDROGEN-FUELING STATION EQUIPMENT. The equipment and structural design
10	components necessary to safely store and dispense hydrogen fuel to vehicles according to industry
11	codes and standards that are open to the public and use safety measures that include hydrogen-
12	refueling canopies.
13	* * * *
14	
15	Section 3. Scope of Ordinance. In enacting this ordinance, the Board of Supervisors
16	intends to amend only those words, phrases, paragraphs, subsections, sections, articles,
17	numbers, punctuation marks, charts, diagrams, or any other constituent parts of the Municipal
18	Code that are explicitly shown in this ordinance as additions, deletions, Board amendment
19	additions, and Board amendment deletions in accordance with the "Note" that appears under
20	the official title of the ordinance.
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4	Section 4. Effective Date. This ordinance shall become effective 30 days after
5	enactment. Enactment occurs when the Mayor signs the ordinance, the Mayor returns the
6	ordinance unsigned or does not sign the ordinance within ten days of receiving it, or the Board
7	of Supervisors overrides the Mayor's veto of the ordinance.
8	
9	
10	APPROVED AS TO FORM:
11	DAVID CHIU, City Attorney
12	By:
13	ROBB KAPLA Deputy City Attorney
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