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消防安全總區

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FIRE SERVICES DEPARTMENT
FIRE SAFETY COMMAND

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26 June 2025

To: Recipients of FSD Circular Letters

Dear Sir/Madam,

FSD Circular Letter No. 3/2025
Fire Safety Requirements for Battery Rooms and Electrical Charging Facilities
("BRECF")

This Circular Letter serves to announce the revised requirements for BRECF in the *Code of Practice for Minimum Fire Service Installations and Equipment, September 2022* ("FSI Code").

With high energy density and charging efficiency, lithium-ion ("Li-ion") batteries are commonly used in secondary power supply. A comprehensive review with the engagement of professional bodies, trades and government departments was therefore conducted to identify the hazard and potential damage caused by Li-ion battery fire in BRECF. With a view to addressing the associated fire risks arising from the use of Li-ion batteries in BRECF, "Automatic fixed installation using water" would be included as one of the requirements for BRECF with effect from **1 August 2025**. Please see the enclosed amendment sheet for details.

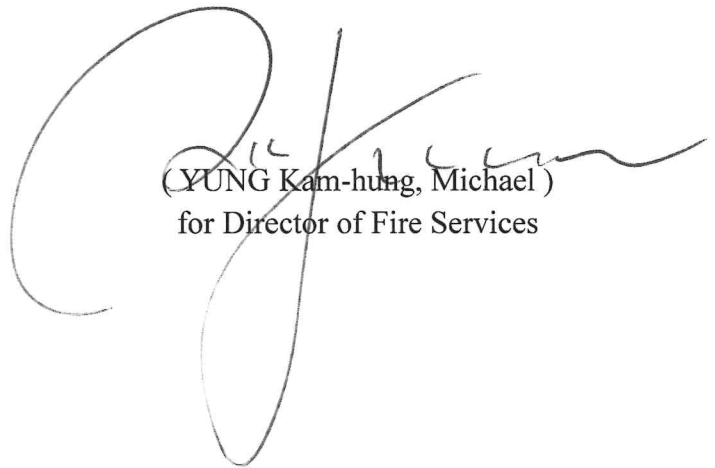
For the avoidance of doubt, the following types of building plans received by this Department on or after the effective date shall demonstrate the compliance of the revised requirements:

- (i) new submission of building plans for new building; and
- (ii) new submission of building plans for existing building of which not less than one half measured by volume is rebuilt or which is altered to such an extent as to necessitate the reconstruction of not less than one half of the superficial area of the main walls, or where a new occupation permit shall be issued.

Notwithstanding the above, voluntary compliance with the revised requirements is strongly encouraged. For addition/alteration of fire service installations and equipment in existing buildings according to the revised requirements, please follow the extant procedures in seeking formal approval.

For enquiries, please contact Senior Divisional Officer (New Projects) at 3971 4600.

Yours faithfully,

A large, stylized handwritten signature in black ink, consisting of a large loop on the left and a series of connected strokes on the right.

(YUNG Kam-hung, Michael)
for Director of Fire Services

Encl.

**Code of Practice for Minimum Fire Service Installations and Equipment
(September 2022)**

Amendment Sheet Serial No. 3/2025

- (1) Insert “Automatic fixed installation using water” into the REQUIREMENTS section of paragraph 4.5 *Battery rooms and electrical charging facilities* and re-number the following REQUIREMENTS:

- (i) *Automatic fixed installation other than water*
- (ii) Automatic fixed installation using water**
- (iii) *Exit sign*
- (iv) *Fire alarm system*
- (v) *Fire detection system*
- (vi) *Gas extraction system*
- (vii) *Portable hand-operated approved appliance*
- (viii) *Ventilation/air conditioning control system*

- (2) Insert the following sub-paragraph into the EXTENT section of paragraph 4.5 and re-number the following EXTENT:

- (i) To be provided to the fire compartment not protected by “Automatic fixed installation using water”.**
- (ii) To be provided to the fire compartment containing lithium-ion batteries with a capacity in excess of 20 kWh.**

Note: (a) **Lithium-ion batteries with a capacity of over 600kWh in a fire compartment requires individual consideration by the Director of Fire Services.**

- (b) **For fire compartment containing lithium-ion batteries with a capacity not exceeding 20 kWh or other types of batteries regardless of capacity, provision of “Automatic fixed installation using water” is strongly encouraged, though not mandatory.**

- (iii) *Sufficient directional and exit signs to ensure that all exit routes from any floor within the premises are clearly indicated as required by the configuration of staircase serving the building.*
- (iv) *One actuating point and one audio warning device to be located at all exit doorways. Visual alarm signals shall be provided where necessary in accordance with current Design Manual: Barrier Free Access. This actuating point shall include facilities for audio/visual warning device initiation.*

- (v) *To be provided in areas not covered by automatic fixed installations.*
- (vi) *Approved type for the part of building where flammable vapours may be generated, and to reduce the concentration below its lower explosive limit.*
- (vii) *As required by occupancy.*
- (viii) *When a ventilation/air conditioning control system to a building is provided, it shall stop mechanically induced air movement within a designated fire compartment.*

- End -