

FIRE SAFETY ACT
(CHAPTER 109A, SECTION 61(1))

FIRE SAFETY (BUILDING AND PIPELINE FIRE SAFETY)
REGULATIONS

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[8th April 1994]

PART I
PRELIMINARY

Citation

1. These Regulations may be cited as the Fire Safety (Building and Pipeline Fire Safety) Regulations.

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Definitions

2. In these Regulations, unless the context otherwise requires —

“area of refuge” means an area which is relatively safe from fire, whether in an adjoining building or an adjoining part of the same building, and from which access can be made through supplemental exits such as a balcony, a bridge, a tunnel, a staircase or such other types of linkage and which allows a person using it to exit safely to the open at ground level;

“area of special risk” means an area where there is a risk of explosion or rapid spread of fire due to the presence of flammable liquids, gases or explosive materials;

[Deleted by S 545/2013 wef 01/09/2013]

“compartment wall” means a wall that is designed and constructed to a specific fire resistance rating to prevent the spread of fire and smoke through it;

“design guidelines” means guidelines accepted by the Commissioner as suitable for the design and evaluation of fire safety works or any part thereof, including any alternative solution;

“elements of structure” means —

- (a) a member forming part of the structural frame of a building or any beam or column but not a member forming part of a roof structure only;
- (b) a load bearing wall or load bearing part of a wall;
- (c) a floor, including a compartment floor, other than the lowest floor (in contact with the ground) of a building;
- (d) an external wall;
- (e) a separating wall;
- (f) a compartment wall; and
- (g) a structure enclosing a protected shaft (protecting structure);

“fire certificate” means a certificate issued by the Commissioner under section 20(1) of the Act;

“Fire Command Centre” means a room within any premises which is specifically designated for the purpose of command and control of operations in the event of fire or other emergencies and fitted with the necessary equipment;

“fire damper” means a device installed in an air distribution system which is designed to close automatically to restrict the passage of fire and heat;

[Deleted by S 545/2013 wef 01/09/2013]

“fire extinguishing system” means a system designed for extinguishing a fire;

“fire lift” means a lift which is adequately protected from fire and which is meant for the exclusive use of firemen in an emergency without interference from the landing call points;

“fire lift lobby” means a protected and ventilated lobby into which a fire lift opens and from which direct access to a protected staircase can be made for the purpose of fire fighting;

“fire resistance rating” means the minimum period of time during which an element of structure or building element may be expected to function satisfactorily while subject to a recognised standard fire test;

“fire safety engineering design brief” means a document prepared by a fire safety engineer to secure in-principle agreement with the Commissioner on the conceptual fire safety engineering design, which shall include —

- (a) the fire performance requirements to be achieved;
- (b) requisite fire scenarios;
- (c) methodologies adopted in undertaking the fire safety designs of the building or the relevant pipeline, as the case may be; and

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- (d) an outline of the trial concept design;

“fire safety engineering report” means a document prepared by a fire safety engineer containing the final design of the fire safety works, commissioning requirements, details of installation and testing, other implementation details, expected fire risks and system performance over the life cycle of the building or the relevant pipeline, as the case may be;

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“fireman access panel” means an opening in the external wall of a building to enable firemen to gain access into the building during fire fighting operations;

“means of escape” means a continuous and unobstructed way of exit from any point in a building or structure to a safe and open area at ground level;

“occupant load” means the total number of persons that may occupy a building or part thereof at any one time;

“operations and maintenance manual” means a document prepared by a fire safety engineer containing instructions for the owner or occupier of a building or pipeline owner (as the case may be) on how to operate and maintain the fire safety measures used in the alternative solution, the limitations of such measures and the restrictions to be placed on usage of the building or relevant pipeline (as the case may be);

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“prescribed fees” means the relevant fees prescribed in Part VI;

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“smoke control system” means a system designed to inhibit or act as a barrier against the spread of smoke in a building;

“smoke detector” means a device which is used for detecting the presence of visible or invisible products of combustion, and which would automatically initiate a signal upon detecting the presence of these products.

PART II

ADMINISTRATION

Application for approval of plans of fire safety works

3. For the purposes of section 23(1) of the Act, an application for the approval of plans of any fire safety works shall be in such form as the Commissioner may provide and shall be accompanied by the prescribed fees and by the following documents:

(a) the following plans of fire safety works:

- (i) building plans (where the fire safety works relate to any building) or relevant pipeline plans (where the fire safety works relate to any relevant pipeline);

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- (ii) air-conditioning and mechanical ventilation plans;
and
 - (iii) fire protection plans;
- (b) a notification signed by the applicant of the appointment of —
- (i) the qualified person who prepared the plans of fire safety works; and
 - (ii) where the plans of fire safety works contain any alternative solution, the fire safety engineer who prepared or supervised the preparation of the plans,
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and a confirmation of such appointment signed by the qualified person and, where applicable, the fire safety engineer;
- (c) the applicable declaration form as set out in the Second Schedule;
- (d) where the plans of fire safety works contain any alternative solution, the additional following documents:
- (i) a fire safety engineering design brief;
 - (ii) a fire safety engineering report, including detailed specifications and drawings of the final design of fire safety works;
 - (iii) an operations and maintenance manual for the building or relevant pipeline, as the case may be, to which the fire safety works relate;
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 - (iv) a notification signed by the applicant of the appointment of a peer reviewer and a confirmation of such appointment signed by the peer reviewer; and
 - (v) a peer reviewer's report as to whether the alternative solution satisfies the fire performance requirements in the Fire Code; and
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- (e) such other documents as the Commissioner may require in any particular case.

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Preparation of plans for approval

4.—(1) All plans of fire safety works accompanying any application for approval of plans under section 23(1) of the Act shall —

- (a) where the plans do not contain any alternative solution, be prepared and signed by an appropriate qualified person as determined in accordance with the Second Schedule to the Building Control Regulations 2003 (G.N. No. S 666/2003);
- (b) where the plans contain any alternative solution —
- (i) be prepared and signed by a qualified person who is a fire safety engineer, or be prepared by a qualified person under the supervision of a fire safety engineer and signed by both the qualified person and the fire safety engineer; and
- (ii) be certified by a peer reviewer that the alternative solution therein satisfies the fire performance requirements in the Fire Code;
- (c) be submitted —
- (i) on standard metric size sheets of the international A series and have on every sheet an outlined rectangular space measuring 150mm x 100mm provided at its top right hand corner for official stamps and endorsement; or
- (ii) in such electronic form stored in such medium as the Commissioner may determine; and
- (d) be accompanied by such standard forms as the Commissioner may require.

(2) Where the plans of fire safety works are submitted in electronic form, the qualified person and, where applicable, the fire safety engineer shall —

- (a) authenticate the plans in electronic form in such manner as the Commissioner may require; and
- (b) ensure that such plans are visible or are capable of being displayed in a clear and intelligible manner on a suitably light background.

(3) The Commissioner may require additional sets of plans or enlarged details, specifications or other information thereof or other documents relating thereto to be submitted to him.

(4) This regulation shall not apply to the plans of fire safety works which relate to minor alterations or additions to existing buildings as set out in the First Schedule.

(5) The plans referred to in paragraph (4) shall be —

- (a) certified by a qualified person appointed in respect of such fire safety works;
- (b) lodged with the Commissioner;
- (c) in such form as the Commissioner considers necessary; and
- (d) accompanied by such other documents as the Commissioner may require.

Non-acceptance of plans

5. The Commissioner may refuse to accept any application for approval of plans of fire safety works and may return the application or plans where —

- (a) the plans are not such as are prescribed by these Regulations;
- (b) he has not received an application in the appropriate form or any such application does not contain the particulars required therein; or

- (c) such fees as prescribed by these Regulations have not been paid.

Scale of plans

6.—(1) All plans of fire safety works submitted under section 23(1) of the Act shall be drawn to the following scales:

- (a) Site plan — 1:500;
- (b) Key or location plan — 1:1,000; and
- (c) Plan of a building or relevant pipeline to which the fire safety works relate — 1:100 except where the size of the building or relevant pipeline is too large for the plan to be drawn on the required standard size paper, the Commissioner may allow the plan to be prepared to a scale not smaller than 1:200.

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(2) The scales and grid references shall be indicated on all plans, sections and other drawings.

Particulars to be shown on plans

7.—(1) Where the fire safety works relate to any building, the building plans submitted under section 23(1) of the Act shall consist of a location plan, a site plan, a floor plan of each storey, a roof plan of the building and sectional and elevational drawings of the building and shall be prepared in accordance with the provisions of the Building Control Act (Cap. 29), the Building Control Regulations 2003 (G.N. No. S 666/2003) and these Regulations.

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(2) In addition to the requirements prescribed under the Building Control Act and the Building Control Regulations 2003, the appropriate plans shall contain or clearly identify and show in distinct colours the following:

- (a) on the location plan —
 - (i) the coloured location of the lot relative to neighbouring lots; and

- (ii) the various roads constituting the access layout to the lot;
- (b) on the site plan —
- (i) the means of access to the site and to the perimeter of each building for fire fighting vehicles and equipment;
 - (ii) distances between each building or fire safety works and the relevant lot boundaries, other proposed or existing buildings or installations on the site;
 - (iii) the location of existing and proposed internal fire-hydrants on the site; and
 - (iv) any other feature on or in the vicinity of the site which is likely to be a fire hazard or is likely to cause obstruction to fire fighting vehicles and equipment and rescue operations;
- (c) on every floor plan and roof plan —
- (i) clear statements indicating the proposed or existing use of every part;
 - (ii) details of all openings and voids penetrating floors including their usage, dimensions and the nature and arrangement of enclosing walls and barricades;
 - (iii) clear statements indicating the design occupant load for that storey or roof for which means of escape in case of fire have been provided in accordance with the Fire Code;
 - (iv) the fire resistance ratings of all elements of structure, fire doors, shutters, dampers and such other fire safety measures;
 - (v) details of all means of escape to the external at ground level from every part of the floor such as exit doors, corridors, passageways, aisles, gangways, balconies, lobbies, ramps, exit passageways, escape and fire fighting staircases and areas of refuge;

- (vi) locations of all existing and proposed fire lifts, fire lift lobbies, the Fire Command Centre, fire pumps, water tank rooms and generator rooms;
 - (vii) locations of all areas designated for the storage of flammable liquids or gases, boiler rooms, transformer rooms and any other area of special risk;
 - (viii) the types and extent of provision of fire detection and alarm systems and voice communications systems;
 - (ix) clear statements indicating the type and ratings of all proposed or existing portable fire extinguishers and their locations;
 - (x) the type and extent of provision of hydraulic hoses, reels, sprinklers systems, wet and dry rising mains and other fire extinguishing systems; and
 - (xi) the type and extent of provision of smoke control and ventilation systems and their related air or smoke shafts;
- (d) cross-sectional views which are necessary to fully describe all details and configurations of the proposed building or part thereof and of the proposed fire safety works and shall include the following:
- (i) the full height of each storey and the depth of ceiling space;
 - (ii) details of all openings and voids penetrating floors including their dimensions, usage and height of enclosing walls and barricades;
 - (iii) details of the junction between the roof and any compartment walls;
 - (iv) the dimensions of treads and rises of staircases;
 - (v) the dimensions of openings in external walls;
 - (vi) the clear height of all structures or projections directly above the access for fire fighting vehicles and equipment;

- (vii) the clear distance of the external wall from the fire fighting vehicles and equipment access, lot boundary, adjacent buildings and other structures;
 - (viii) the types of materials used in and the thickness of all walls, floors, roofs, ceilings, beams and other related parts of the building; and
 - (ix) enlarged details of curtain walling at the junction with the typical floor slab to show the provision of fire stopping or fire cavity barriers;
- (e) elevational details including —
- (i) the provisions of fireman access panels on the external walls and claddings; and
 - (ii) the clear distance of the external wall from the fire fighting vehicles and equipment access, lot boundary, adjacent buildings and other structures; and
- (f) such other details, particulars or information relating to the building or fire safety works as the Commissioner may require.

(3) Where the fire safety works relate to any relevant pipeline, the relevant pipeline plans submitted under section 23(1) of the Act shall, in addition to complying with paragraphs (1) and (2) (with the necessary modifications) —

- (a) include a fully-dimensioned site plan, with layout plans, elevations and sectional views, including (where the relevant pipeline or any existing relevant pipeline within the same pipetrack or piperack is an underground pipeline) the underground plans, elevations and sectional views of such underground pipelines; and
- (b) contain the following details in respect of the relevant pipeline and all other existing relevant pipelines located within the same pipetrack or piperack as the relevant pipeline:

- (i) details of the relevant pipeline, including the capacity, thickness, material type, size, joints and connections, labelling and colour code;
- (ii) types and quantity of petroleum and flammable materials to be conveyed between each consecutive pair of emergency isolation valves on the relevant pipeline, and the respective flow rate, pressure, temperature and Safety Data Sheet relating to each type of petroleum or flammable material conveyed;
- (iii) location and details of the emergency isolation valves and procedures to handle surge pressures;
- (iv) location and details of leakage monitoring, detection and control systems (such as systems to shut-off relevant pumps and isolation valves automatically) and over-pressure protection system (such as automatic depressurisation and venting systems); and
- (v) location and details of fire protection systems and measures (such as fire hydrant and fire water monitors), other safety systems and measures (such as secondary containment for the entire pipeline or pipeline corridor) and ancillary safety equipment.

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Particulars to be shown on plans for air-conditioning, mechanical ventilation and fire protection works

8.—(1) Plans to be submitted for air-conditioning, mechanical ventilation and fire protection works shall include the following:

- (a) key features of the building in which the system is to be installed, including the particulars listed in regulations 6 and 7;
- (b) a schematic diagram of the overall system showing clearly the key features and their functions, relative locations in the building, lots, sizes, capacities and other essential information including the air distribution design

arrangement in the case of air-conditioning and mechanical ventilation systems;

- (c) the layout of the system on every floor plan showing clearly the various parts and their functions, locations, arrangements, sizes, capacities and other essential information;
- (d) necessary cross-sectional views as superimposed on the building or part thereof to fully describe the details and configurations of the system;
- (e) a colour scheme to clearly distinguish the various distinct parts of the system and the different systems from one another;
- (f) for air-conditioning and mechanical ventilation systems such additional details as —
 - (i) the volumetric rate of flow of air at each point of inlet and outlet of each system including those serving protected staircases, exit passageways, lobbies, areas of refuge, the Fire Command Centre, fire pump rooms, generator rooms, rooms used for the storage of flammable liquids or gas or other areas of special risk;
 - (ii) the location of fire compartment walls, floors and air shafts;
 - (iii) the location of fire dampers;
 - (iv) the location of smoke detectors; and
 - (v) the location and function of other fire precautionary features.

(2) Where required by the Commissioner, such plans submitted shall be accompanied by —

- (a) a report identifying and describing each system installed in the building and its design, features and operational arrangements; and
- (b) design calculations.

Additional requirements

9. In addition to the plans and specifications required by regulations 7 and 8, the Commissioner may require the applicant to produce computations, test reports and such other information as may be necessary to determine compliance with these Regulations.

Approval, disapproval and rejection of plans

10.—(1) Where the Commissioner approves any plans of fire safety works under section 23(2)(a) of the Act, he shall in writing notify the applicant and the qualified person who prepared the plans of his approval and of any terms and conditions on which such approval has been granted.

(2) Where any plans of fire safety works are —

(a) disapproved under section 23(2)(b) of the Act;

(b) rejected under section 23(3) of the Act; or

(c) approved under section 23(4) of the Act,

the Commissioner shall in writing notify the applicant and the qualified person who prepared those plans.

Return of plans

11.—(1) Where any plans of fire safety works have been approved or disapproved, the Commissioner may retain one set and return the remaining sets of the plans to the applicant.

(2) Where any plans of fire safety works are rejected under section 23(3) of the Act or where they are withdrawn by the applicant before or after the approval, the Commissioner may return the plans to the applicant.

(3) Where any plans of fire safety works are to be returned pursuant to this regulation, the Commissioner shall in writing notify the applicant to collect the plans within 14 days from the date of the notification from such place as the Commissioner may specify.

(4) Where any plans of fire safety works to be returned by the Commissioner are not collected within the period referred to in

paragraph (3), the Commissioner may dispose of the plans in any manner as he thinks fit.

PART III

DUTIES OF QUALIFIED PERSONS, FIRE SAFETY ENGINEERS AND PERSONS FOR WHOM WORKS ARE CARRIED OUT

[S 545/2013 wef 01/09/2013]

Duty to prepare plans

12.—(1) For the purposes of section 23(1A) of the Act, every appointed qualified person and, where applicable, every appointed fire safety engineer shall —

- (a) give or show correctly and clearly all particulars and information that are required to be given or shown on a plan which is signed by him and is submitted under the Act and shall not misrepresent or exclude those particulars or information on or from the plan, as the case may be; and
- (b) ensure that all plans or specifications are in conformity with the provisions of the Act, these Regulations and the Fire Code.

(2) Where the plans of fire safety works contain any alternative solution, the appointed fire safety engineer shall, in addition —

- (a) conform to design guidelines and codes of practice approved by the Commissioner in designing the alternative solution or any part thereof, subject to any deviation or modification approved by the Commissioner;
- (b) make available to the Commissioner such documents, fire safety engineering software models or tools, and information used in the fire safety engineering software models as the Commissioner may require; and
- (c) assist the peer reviewer to obtain such reports and other documents from relevant bodies or testing laboratories as the peer reviewer may require to assess the alternative solution.

Duty to supervise works

13. For the purposes of section 25(4) of the Act, every appointed qualified person and, where applicable, every appointed fire safety engineer shall —

- (a) supervise all works concerning fire safety works of which the plans have been prepared or supervised by him for the purpose of ensuring that the works are carried out in accordance with such plans, the Act and all regulations made thereunder and any written order or direction of the Commissioner under these Regulations;
- (b) on completion of the works, submit a copy of his certificate of supervision in a standard form to the Commissioner; and
- (c) keep a proper record of all reports, requests and correspondence relating to the design or implementation of fire safety works, and furnish the Commissioner with a copy of such document as the Commissioner may, from time to time, require.

Change of qualified person or fire safety engineer

14.—(1) Where there is a change of a qualified person or fire safety engineer employed or engaged to prepare any plan for fire safety works or to supervise the same and such change is made after the plan has been submitted under the Act, the qualified person or fire safety engineer whose services are being terminated shall notify the Commissioner in writing of the termination of his services within 14 days of such termination.

(2) With effect from the date of the termination, no work concerning fire safety works shall be carried out, commenced or resumed unless another qualified person or fire safety engineer has notified the Commissioner in writing of his appointment as the qualified person or fire safety engineer to supervise the works under regulation 13.

Offences by qualified person or fire safety engineer

15. Every qualified person and, where applicable, every fire safety engineer who submitted any plan or specification under the Act or

who is required to supervise any works concerning fire safety under these Regulations shall be guilty of an offence if he, without reasonable cause —

- (a) misrepresents any relevant particulars or information required to be shown or given on such plan or specifications under the Act or these Regulations or excludes therefrom such particulars or information if such plan or specifications has or have been accepted or approved by, or submitted to the Commissioner under the Act or these Regulations;
- (b) submits an incorrect certificate of supervision to the Commissioner under regulation 13(b); or
- (c) contravenes any of the provisions of regulation 12, 13 or 14.

Duties of owner or occupier prior to commencement of fire safety works

16.—(1) Before the commencement, carrying out or resumption of any fire safety works, the persons referred to in paragraph (2) shall —

- (a) ascertain that all the plans of the fire safety works which are required by or under the Act to be submitted to the Commissioner have been approved by the Commissioner and that such approval has not been withdrawn and is still valid; and
 - (b) ensure that such works are to be supervised at all times by a qualified person and, where the works use any alternative solution, a fire safety engineer.
- (2) The following persons shall comply with paragraph (1):
- (a) in the case of fire safety works which relate to a relevant pipeline, the pipeline owner of the section of the relevant pipeline; and

- (b) in the case of other fire safety works, the owner or occupier of the premises in which such works are to be commenced, carried out or resumed.

[S 545/2013 wef 01/09/2013]

PART IV

OCCUPATION OF BUILDINGS AND USE OF RELEVANT PIPELINES

[S 545/2013 wef 01/09/2013]

Application for fire safety certificate

17.—(1) On completion of any fire safety works, the person for whom the fire safety works were carried out shall, except for any fire safety works referred to in regulation 4(4), apply to the Commissioner for —

- (a) a fire safety certificate; or
- (b) a temporary fire permit.

(2) An application for a fire safety certificate or a temporary fire permit shall be in such form as the Commissioner may provide and shall be accompanied by —

- (a) a certificate by the qualified person and, where applicable, the fire safety engineer who supervised the fire safety works in accordance with the approved plans for fire safety works stating that all the requirements under the Act and these Regulations have been complied with;
- (b) a certificate by a registered inspector prepared under regulation 11(1) of the Fire Safety (Registered Inspectors) Regulations (Rg 2); and
- (c) such other documents as the Commissioner may require in any particular case.

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(3) Paragraph (2) shall not apply to any application submitted by the Housing and Development Board, the Land Transport Authority of Singapore and such other public authority whose qualified persons

have been authorised by the Commissioner to perform the functions and duties of the Commissioner under section 3(3) of the Act.

(4) The Commissioner may grant a fire safety certificate in respect of a building or relevant pipeline or part thereof in respect of which fire safety works have been carried out where —

- (a) the fire safety works have been completed in accordance with the provisions of the Act and these Regulations;
- (b) the certificate of supervision referred to in regulation 13(b) has been submitted by the qualified person and, where applicable, the fire safety engineer to the Commissioner;
- (c) all the written directions given by the Commissioner to the applicant under section 23(2) of the Act and to the appropriate qualified persons or fire safety engineer who supervised the carrying out of the fire safety works or part thereof under section 25(4) of the Act have been complied with;
- (d) all the requirements either shown, implied or endorsed on the approved plans have been complied with; and
- (e) such other certificate or document as may be required by the Commissioner has been submitted.

[S 545/2013 wef 01/09/2013]

Temporary fire permit

18.—(1) A fire safety certificate shall not be granted in respect of any building or relevant pipeline where —

- (a) there are minor requirements still to be complied with under the Act or these Regulations;
- (b) any of the written directions or requirements shown or endorsed on the plans have not been fully complied with;
- (c) there are minor deviations or departures from any approved plan of fire safety works; or
- (d) the fire safety works have not been fully completed.

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(2) Notwithstanding paragraph (1), the Commissioner may, if he is satisfied that the non-compliance, deviation or non-completion of fire safety works is neither of a serious nature nor in any way detrimental to the well being and safety of the persons who may occupy the building or part thereof or who may be in the vicinity of the relevant pipeline, as the case may be, grant a temporary fire permit for the occupation or use of the building or the use of the relevant pipeline, as the case may be.

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- (3) A temporary fire permit may be granted where —
- (a) the certificate of supervision referred to in regulation 13(b) has been submitted by the qualified person and, where applicable, the fire safety engineer to the Commissioner; and
 - (b) any other certificate or document as may be required by the Commissioner have been submitted.

Application for temporary fire permit for part of building

19. If an application for a temporary fire permit relates to a part of a building, the qualified person shall separate or cause to be separated those areas under construction from the areas to which the application relates by means of proper hoardings acceptable to the Commissioner.

Inspection and provision of facilities for tests

20. The person for whom fire safety works were carried out shall open or cause to be opened the premises for inspection by the Commissioner and shall make available, at the request of the Commissioner and at the expense of that person, equipment, machines or other devices necessary to facilitate the inspection or tests to be carried out by the Commissioner for the purpose of issuing a fire safety certificate or temporary fire permit.

Application for change of use

21.—(1) No person shall carry out any change of use of any premises unless an application for approval is made to the

Commissioner under section 30 of the Act and such approval is obtained.

(2) An application for approval referred to in paragraph (1) shall be accompanied by plans of fire safety works prepared for the purpose of the application.

(3) Paragraph (2) shall not apply to an application for approval of temporary change of use for the purpose of stage shows, promotional activities, exhibitions, trade fairs or carnivals.

(4) An application for approval of such temporary change of use as referred to in paragraph (3) shall be made in such form as the Commissioner may determine and shall be accompanied by the prescribed fees and the following documents:

- (a) site plan;
- (b) floor plan showing or containing the proposed or existing use of every part;
- (c) layout plan showing or containing —
 - (i) the purpose of the intended usage;
 - (ii) clear statements indicating the details of the proposed activities; and
 - (iii) the design and material of any temporary structure to be erected for the activities; and
- (d) such other information as the Commissioner may require.

Fire safety works to comply with these Regulations, Fire Code, etc.

22. All fire safety works shall be designed, installed, tested, inspected, operated and maintained in accordance with these Regulations, the Fire Code and any instructions that have been issued by the Commissioner under these Regulations.

Use of plastic materials

23. Plastic materials used for coverings and insulation purposes shall conform to the type and standards acceptable to the Commissioner and shall be of a type which shall not if burnt emit

toxic gases beyond such values as may be prescribed by the Commissioner.

Tests of materials and equipment

24. The Commissioner may direct that materials, construction or structural assemblies, installations, equipment and components be tested at the expense of the owner, if it is necessary in his opinion to determine whether the materials, construction or structural assemblies, installations, equipment and components meet the requirements of the Act and the regulations made thereunder.

PART V

FIRE CERTIFICATE

Application for fire certificate

25.—(1) An application for the issue or renewal of the fire certificate under section 20(1) of the Act shall be made to the Commissioner in such form as may be provided by the Commissioner and shall be accompanied by —

- (a) the prescribed fees;
- (b) such certifications as the Commissioner may require from the relevant qualified persons that they have examined the building or part thereof and that the fire safety works in the building are in good working condition and in conformity with the Act and the regulations made thereunder; and
- (c) such other information that the Commissioner may require.

(2) An application for the renewal of a fire certificate under paragraph (1) shall be made at least 2 months before the expiry of the fire certificate.

(3) Where an application for the issue or renewal of a fire certificate is made under paragraph (1), the Commissioner may refuse to issue or renew the fire certificate or may issue or renew the fire certificate on such terms and conditions as he thinks fit.

Validity of fire certificate

26. A fire certificate shall be valid for such period not exceeding 12 months as may be specified in the fire certificate and may be renewed.

Revocation of fire certificate

27. The Commissioner may revoke any fire certificate where there is —

- (a) a breach of any of the terms and conditions of the certificate;
- (b) any misrepresentation of a material fact in the application for the fire certificate or accompanying plans or documents upon the basis of which the certificate was issued or renewed; or
- (c) knowledge that the fire hazards within the building or part thereof, for which the fire certificate was issued or renewed, have increased without adequate fire safety measures being taken to the satisfaction of the Commissioner.

False or inaccurate certificate

28. A qualified person who submits to the Commissioner any certification referred to in regulation 25(1)(b) which —

- (a) is false; or
- (b) without reasonable cause, contains any misrepresentation of a material fact,

shall be guilty of an offence.

Application for approval of building materials and equipment

29.—(1) An application to the Commissioner for approval of building materials or equipment to be used in any fire safety works shall be made in such form as the Commissioner may determine and shall be accompanied by the prescribed fees and such other documents or information as the Commissioner may require.

(2) This regulation shall not apply if the building materials or equipment to be used in any fire safety works are listed under the Product Listing Scheme referred to in the Fire Code in relation to the certification of regulated fire safety products or materials.

[S 545/2013 wef 01/09/2013]

PART VI

FEES

Issue or renewal of fire certificate

30.—(1) The fee for each application for the issue or renewal of a fire certificate in respect of any building or part thereof shall be —

- (a) \$11 for each storey or part thereof of the building lawfully used or intended to be used for residential (landed or non-landed) purposes; and

[S 545/2013 wef 01/11/2013]

- (b) \$33 for each storey or part thereof of the building lawfully used or intended to be used for non-residential purposes.

[S 172/2010 wef 29/03/2010]

[S 545/2013 wef 01/11/2013]

(2) If the application for the issue or renewal of a fire certificate is refused under regulation 25(3) or if the fire certificate is revoked under regulation 27, the fee paid under paragraph (1) shall not be refundable.

Additional copy of notice or certificate

31. The fee for each additional copy of any notice or certificate issued under the Act or these Regulations shall be \$11.

[S 545/2013 wef 01/11/2013]

Fees for approval of plans

32.—(1) Subject to paragraph (2), the fee payable for an application for approval of plans of fire safety works which relate to the

installation of fire safety measures under Part IV of the Act shall be \$160 for every 100 square metres of floor area or part thereof.

[S 545/2013 wef 01/09/2013]

[S 328/2015 wef 01/08/2015]

(1A) Subject to paragraphs (1B) and (2), the fee payable for an application for approval of plans of fire safety works which relate to relevant pipeline works under Part IV of the Act shall be —

- (a) if the relevant pipeline or any part thereof is located within a tunnel or other shelter, \$160 for every 100 square metres or part thereof of that tunnel or shelter; or

[S 328/2015 wef 01/08/2015]

- (b) in any other case, \$90 per application.

[S 545/2013 wef 01/09/2013]

[S 328/2015 wef 01/08/2015]

(1B) The fee under paragraph (1A)(a) shall not apply to an application for approval of plans of fire safety works which relate to relevant pipeline works if —

- (a) that application is made together with an application for approval of plans of fire safety works which relate to the installation of fire safety measures under Part IV of the Act (referred to in this paragraph as “the other application”); and
- (b) the area of any tunnel or shelter in which the relevant pipeline or part thereof is located has already been included in the calculation of the fee under paragraph (1) for the other application.

[S 545/2013 wef 01/09/2013]

(2) Where the Commissioner has under section 23(2)(b) of the Act disapproved any plan referred to in paragraph (1) or (1A), the person who submitted the plan may revise and resubmit the plan for approval upon payment of the following fees:

- (a) in the case of a revised plan which —
 - (i) contains the same location plan, site plan and gross area as the disapproved plan;

- (ii) is a first revision of the disapproved plan;
- (iii) has been revised only in respect of fire safety measures or the relevant pipeline works, as the case may be, in order to comply with the provisions of the Act, these Regulations and the Fire Code adopted under section 55 of the Act and does not include any other changes; and

[S 545/2013 wef 01/09/2013]

- (iv) has been submitted within 90 days of the date of the notification of disapproval or such further period as the Commissioner may allow,

25% of the fee specified in paragraph (1) or (1A), as the case may be; and

[S 545/2013 wef 01/09/2013]

- (b) in any other case, the fee specified in paragraph (1) or (1A), as the case may be.

[S 545/2013 wef 01/09/2013]

(3) The fee payable for an application for approval of plans of fire safety works which relate to fire protection works or minor works under Part IV of the Act shall be —

- (a) \$90 for each storey of a building; or

[S 328/2015 wef 01/08/2015]

- (b) if the fire protection works are not located (wholly or partly) within any building, \$90 per application.

[S 545/2013 wef 01/09/2013]

[S 328/2015 wef 01/08/2015]

Approval for deviation from plans

33. The fee payable for an application for approval of fire safety works which has departed or deviated from an approved plan of the fire safety works shall be —

- (a) \$90 for each storey of a building shown in respect of which the departure or deviation is made or to be made; or

[S 328/2015 wef 01/08/2015]

- (b) \$90 per submission in respect of any departure or deviation from plans for relevant pipeline works.

[S 545/2013 wef 01/09/2013]

[S 328/2015 wef 01/08/2015]

Approval for alterations or additions to existing buildings

34.—(1) The fee payable for an application for approval of plans of fire safety works which relate to the alterations or additions to an existing building shall be \$90 for each storey of a building shown in respect of which the alterations or additions are to be made.

[S 545/2013 wef 01/09/2013]

[S 328/2015 wef 01/08/2015]

(2) Where the application for approval of plans for installation of fire safety measures also involves increasing the floor area of a building, an additional fee of \$160 shall be payable for every increase in the floor area by 100 square metres or part thereof.

[S 328/2015 wef 01/08/2015]

(3) The fee payable for an application for approval of plans which relate to alterations to a relevant pipeline shall be \$90.

[S 545/2013 wef 01/09/2013]

[S 328/2015 wef 01/08/2015]

Fee for lodgment of plan relating to minor alterations or additions to existing buildings

35. Any owner of an existing building or any part thereof who lodges any plan of fire safety works which relate to minor alterations or additions to such building or such part thereof under regulation 4(5) shall pay a fee of \$90.

[S 545/2013 wef 01/09/2013]

[S 328/2015 wef 01/08/2015]

Fee for application for modification or waiver

36. The fee payable for an application for modification or waiver of a requirement relating to fire safety under section 27(1) of the Act

shall be \$160 in respect of each requirement to which the application relates.

[S 545/2013 wef 01/09/2013]

[S 328/2015 wef 01/08/2015]

Fee for change of use and temporary change of use

37.—(1) The fee payable for an application for approval of change of use as referred to in regulation 21(1) shall be \$90 for each storey of a building.

[S 328/2015 wef 01/08/2015]

(2) The fee payable for an application for approval of temporary change of use as referred to in regulation 21(4) shall be \$80.

[S 545/2013 wef 01/11/2013]

[S 328/2015 wef 01/08/2015]

Approval of building materials

38. The fee for an application for approval of building materials used for construction or structural assemblies, installations, equipment and components shall be \$145.

[S 328/2015 wef 01/08/2015]

Inspection of plans

39.—(1) The fee for inspecting a plan kept in the office of the Commissioner shall be \$22 for a set of plans inspected.

[S 545/2013 wef 01/11/2013]

(2) The fee for a request for information, necessitating the inspection by staff of the office of the Commissioner of any plan kept by the Commissioner or records related thereto, shall be \$27 for each plan or record inspected by the staff.

[S 545/2013 wef 01/11/2013]

Copying of plans

40. The fee for copying a plan kept in the office of the Commissioner shall be \$27 for a set of plans copied.

[S 545/2013 wef 01/11/2013]

Certification of true copies of plans

41. The fee for an endorsement by the Commissioner that copies of plans of any fire safety works are true copies of those plans kept in his office shall be \$5 for each copy or sheet of plans.

No refund of fees

42. Fees paid under these Regulations shall not be refundable.

Waiver of fees

43. The Commissioner may, in his discretion, waive any fee or part thereof payable under these Regulations.

PART VII MISCELLANEOUS

Penalty

- 44.** Any person who —
- (a) without lawful excuse refuses or neglects to do anything which he is required to do under these Regulations;
 - (b) without lawful excuse fails to comply with the requirements of any notice served on him under these Regulations; or
 - (c) without lawful excuse acts in contravention of any provision of these Regulations,

shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000 or to imprisonment for a term not exceeding 6 months or to both.

Responsibility for failure of fire safety works

45. Notwithstanding that a plan, specification or design calculation relating to fire safety works has been approved, the responsibility for a failure of the fire safety works whether in the course of its construction or after its completion shall prima facie lie with the qualified person and, where the plans contain any alternative solution, the fire safety engineer who prepared or supervised the

preparation of and signed such plans, specifications or design calculation or who supervised the fire safety works under these Regulations.

Application to exempted fire safety works

46.—(1) The provisions of the Act and these Regulations shall, with the necessary modifications, apply to fire safety works exempted under the Fire Safety (Exemption) (Temporary Buildings in Construction Sites) Order (O 2).

(2) Every person for whom such fire safety works are carried out and every qualified person appointed in respect of such fire safety works shall comply with the conditions of the exemption under the Fire Safety (Exemption) (Temporary Buildings in Construction Sites) Order.

FIRST SCHEDULE

Regulation 4(4)

1. Minor alterations or additions to fire safety measures refers to —

- (a) minor building works involving the use of lightweight non-combustible construction which will not affect fire compartmentation such as fire resisting walls or doors or means of escape in the building, or pose additional fire hazard to the building; and
- (b) internal partition works —
 - (i) which are to be carried out within a floor space defined as a shop or an office in an approved building plan; and
 - (ii) for which a temporary fire permit or fire safety certificate has been obtained.

2. The criteria for minor alterations or additions to fire safety measures as referred to in paragraph 1 are as follows:

- (a) works that do not affect the fire resistance of element of structure and the fire compartmentation;
- (b) works that do not affect means of escape;
- (c) works that do not affect the wet or dry riser, landing valve or hosereel;
- (d) works that do not involve change of use;
- (e) works that do not involve an increase in floor area;

FIRST SCHEDULE — *continued*

- (f) works that do not involve raised floor system; or
- (g) works that do not involve conservation projects.

3. The criteria for minor alterations or additions to fire protection, air-conditioning and mechanical ventilation systems are as follows:

- (a) in the case of mechanical ventilation systems, where fire dampers or fans are altered or shifted at areas other than —
 - (i) exit staircases and internal exit passageways;
 - (ii) pressurisation of internal corridors in hotels;
 - (iii) smoke stop lobbies or fire-fighting lobbies;
 - (iv) fire pump rooms, generator rooms, Fire Command Centre or rooms involving use of flammable and explosive substances;
 - (v) basement smoke control systems; and
 - (vi) engineered smoke control systems,and do not contravene the Act or these Regulations;
- (b) in the case of fire protection systems —
 - (i) changes involving range pipe and distribution pipes routing up to the design point from downstream and provided that they are still within the sprinkler protection area; or
 - (ii) changes involving additions or alterations of concealed sprinkler heads arising from changes in depths of ceiling voids due to changes in ceiling heights, provided that the protection of the ceiling spaces is in accordance with the relevant sprinkler codes; and
- (c) in the case of automatic fire alarm systems —
 - (i) where relocation of the alarm panels (main or subpanels) in —
 - (A) the Fire Command Centre;
 - (B) smoke stop lobbies;
 - (C) protected staircases or main entrances; or
 - (D) any other place which is not easily smoke-logged and readily accessible to firemen,does not contravene the Act or these Regulations; or
 - (ii) where replacement of the fire alarm panel does not contravene the Act or these Regulations.

SECOND SCHEDULE

Regulation 3(c)

FORM 1

FIRE SAFETY ACT
(CHAPTER 109A)

FIRE SAFETY
(BUILDING AND PIPELINE FIRE SAFETY)
REGULATIONS

DECLARATION FORM

The Commissioner
Singapore Civil Defence Force
91 Ubi Avenue 4
Singapore 408827

To be completed by the qualified person who prepares the plans of fire safety works which do not contain any alternative solution.

Proposal

*Lot/Plot

*TS/MK

Address/Road

I, _____, NRIC No./Passport No. _____,
being a qualified person under the Fire Safety Act, hereby certify that the fire safety works as shown on these plans have been designed in accordance with the provisions of the Fire Code, the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to modifications or waivers under section 27 of the Fire Safety Act.

(Name and signature of qualified person)

(Address of qualified person)

Date: _____

*Delete whichever is inapplicable.

[S 545/2013 wef 01/09/2013]

FORM 2

FIRE SAFETY ACT
(CHAPTER 109A)

SECOND SCHEDULE — *continued*

FIRE SAFETY
(BUILDING AND PIPELINE FIRE SAFETY)
REGULATIONS

The Commissioner
Singapore Civil Defence Force
91 Ubi Avenue 4
Singapore 408827

Proposal

*Lot/Plot

*TS/MK

Address/Road

PART I

To be completed by the qualified person who is a fire safety engineer and who prepares the plans of fire safety works which include any alternative solution, and the fire safety engineering report.

I, _____, NRIC No./Passport No. _____,
being a qualified person and a fire safety engineer under the Fire Safety Act,
hereby certify that —

- (a) the fire safety works as shown on these plans have been designed in accordance with the provisions of the Fire Code, the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to modifications or waivers under section 27 of the Fire Safety Act; and
- (b) the alternative solution in the plans, and the fire safety engineering report, satisfy the fire performance requirements in the Fire Code, and comply with the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to any deviation or modification approved by the Commissioner.

(Name and signature of
qualified person/fire safety engineer)

(Address of qualified person/
fire safety engineer)

Date: _____

*Delete whichever is inapplicable.

SECOND SCHEDULE — *continued*

PART II

To be completed by the peer reviewer who reviews the alternative solution in the plans of fire safety works and the fire safety engineering report.

I, _____, NRIC No./Passport No. _____, being a peer reviewer under the Fire Safety Act, hereby certify that the alternative solution shown on these plans, and the fire safety engineering report, *satisfy/do not satisfy/partially satisfy, subject to the conditions stated in my peer reviewer's report the fire performance requirements in the Fire Code, and comply with the provisions of the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to any deviation or modification approved by the Commissioner.

(Name and signature of peer reviewer)

(Address of peer reviewer)

Date: _____

*Delete whichever is inapplicable.

[S 545/2013 wef 01/09/2013]

FORM 3

FIRE SAFETY ACT
(CHAPTER 109A)

FIRE SAFETY
(BUILDING AND PIPELINE FIRE SAFETY)
REGULATIONS

DECLARATION FORM

The Commissioner
Singapore Civil Defence Force
91 Ubi Avenue 4
Singapore 408827

Proposal

*Lot/Plot

*TS/MK

Address/Road

PART I

SECOND SCHEDULE — *continued*

To be completed by a qualified person who is not a fire safety engineer and who prepares the plans of fire safety works, and prepares the alternative solution in the plans under the supervision of a fire safety engineer.

I, _____, NRIC No./Passport No. _____,
being a qualified person under the Fire Safety Act, hereby certify that —

- (a) the fire safety works as shown on these plans have been designed in accordance with the provisions of the Fire Code, the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to modifications or waivers under section 27 of the Fire Safety Act; and
- (b) the alternative solution in the plans adheres to the fire safety engineering report.

(Name and signature of qualified person)

(Address of qualified person)

Date: _____

*Delete whichever is inapplicable.

PART II

To be completed by the fire safety engineer who is not a qualified person and who supervises the preparation of the alternative solution in the plans of fire safety works, and prepares the fire safety engineering report.

I, _____, NRIC No./Passport No. _____, being a fire safety engineer under the Fire Safety Act, hereby certify that the alternative solution shown on these plans, and the fire safety engineering report, satisfy the fire performance requirements in the Fire Code, and comply with the provisions of the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to any deviation or modification approved by the Commissioner.

(Name and signature of
fire safety engineer)

(Address of fire safety engineer)

Date: _____

PART III

SECOND SCHEDULE — *continued*

To be completed by the peer reviewer who reviews the alternative solution in the plans of fire safety works and the fire safety engineering report.

I, _____, NRIC No./Passport No. _____, being a peer reviewer under the Fire Safety Act, hereby certify that the alternative solution shown on these plans, and the fire safety engineering report, *satisfy/do not satisfy/partially satisfy, subject to the conditions stated in my peer reviewer's report the fire performance requirements in the Fire Code, and comply with the provisions of the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to any deviation or modification approved by the Commissioner.

(Name and signature of peer reviewer)

(Address of peer reviewer)

Date: _____

*Delete whichever is inapplicable.

[S 545/2013 wef 01/09/2013]

[G.N. Nos. S 165/94; S128/96; S 254/97; S 434/97;
S 361/98; S 341/99; S 181/2000; S 334/2004]

LEGISLATIVE HISTORY
FIRE SAFETY (BUILDING AND PIPELINE FIRE SAFETY)
REGULATIONS
(CHAPTER 109A, RG 1)

formerly known as the Fire Safety (Building Fire Safety) Regulations

This Legislative History is provided for the convenience of users of the Fire Safety (Building Fire Safety) Regulations. It is not part of these Regulations.

1. G. N. No. S 165/1994 — Fire Safety (Building Fire Safety) Regulations 1994

Date of commencement : 8 April 1994

2. 1995 Revised Edition — Fire Safety (Building Fire Safety) Regulations

Date of operation : 1 April 1995

3. G. N. No. S 128/1996 — Fire Safety (Building Fire Safety) (Amendment) Regulations 1996

Date of commencement : 1 April 1996

4. G. N. No. S 254/1997 — Fire Safety (Building Fire Safety) (Amendment) Regulations 1997

Date of commencement : 1 July 1997

5. G. N. No. S 434/1997 — Fire Safety (Building Fire Safety) (Amendment No. 2) Regulations 1997

Date of commencement : 1 October 1997

6. G. N. No. S 361/1998 — Fire Safety (Building Fire Safety) (Amendment) Regulations 1998

Date of commencement : 7 September 1998

7. G. N. No. S 341/1999 — Fire Safety (Building Fire Safety) (Amendment) Regulations 1999

Date of commencement : 1 August 1999

8. G. N. No. S 181/2000 — Fire Safety (Building Fire Safety) (Amendment) Regulations 2000

Date of commencement : 1 April 2000

9. 2001 Revised Edition — Fire Safety (Building Fire Safety) Regulations

Date of operation : 31 January 2001

10. G. N. No. S 334/2004 — Fire Safety (Building Fire Safety) (Amendment) Regulations 2004

Date of commencement : 1 July 2004

11. 2008 Revised Edition — Fire Safety (Building Fire Safety) Regulations

Date of operation : 2 June 2008

12. G. N. No. S 172/2010 — Fire Safety (Building Fire Safety) (Amendment) Regulations 2010

Date of commencement : 29 March 2010

13. G.N. No. S 545/2013 — Fire Safety (Building Fire Safety) (Amendment) Regulations 2013

Date of commencement : 1 September 2013 (except Regulations 13, 14, 19(b), 20, 21 and 22)

1 November 2013 (Regulations 13, 14, 19(b), 20, 21 and 22)

14. G.N. No. S 328/2015 — Fire Safety (Building and Pipeline Fire Safety) (Amendment) Regulations 2015

Date of commencement : 1 August 2015